Curriculum vitae

PERSONAL INFORMATION

Alessio Fachechi
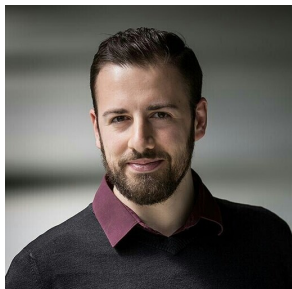
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🌐 https://www.alessiofachechi.it

🐙 https://www.github.com/alessiofachechi

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WORK EXPERIENCE

January 2022 – Present

Principal Software Engineer & Solutions Architect

Plentific Ltd, 119-121 Cannon Street, London, EC4 5AT

– Architect and deliver Cloud-Native microservices for a scalable, high-availability platform in the real estate market.
– Lead the design and implementation of Event-Driven Architectures (EDA), ensuring decoupled, real-time data processing.
– Contribute to DevOps practices across teams, focusing on CI/CD automation, Infrastructure as Code, observability, and platform reliability.
– Provide technical leadership to cross-functional teams, mentoring engineers, reviewing designs, and aligning technical strategy with business goals.
– Collaborate with Product and Engineering Managers to ensure architecture scalability and business alignment.
– Define technical vision and best practices for backend development, balancing short-term needs with long-term sustainability.
– Focus on delivering future-proof, resilient solutions, minimizing technical debt while supporting rapid business growth.
– Contribute to platform observability and reliability improvements, integrating best-in-class monitoring and alerting solutions.

Stack   Python, Django, Django REST Framework, Celery, PostgreSQL, AWS, Kubernetes, Loki, Grafana

Skills   Technical Leadership, Software Architecture, Web Back-end Development

September 2025 – September 2026

Present Adjunct Professor – Course Instructor, "Progettazione di Architetture di Servizi"

Università del Salento – M.Sc. in Computer Engineering

– Design and deliver advanced lectures on Software Architecture and Service-Oriented Systems, with focus on Cloud-Native and Event-Driven Architectures.
– Translate industry best practices into academic content, bridging cutting-edge professional experience with theoretical foundations.
– Guide students through hands-on projects, simulating real-world engineering challenges in scalability, resilience, and DevOps practices.
– Supervise and mentor Master's students, fostering critical thinking, innovation, and applied research in modern distributed systems.
– Contribute to the alignment between academic curricula and professional standards, ensuring graduates are prepared for highly technical roles in industry and research.

Stack   Java, Spring, Microservices, Event-Driven Architecture, AWS, Kubernetes

Skills   Teaching, Mentorship, Software Architecture, Cloud Computing, Academic-Industry Knowledge Transfer

January 2021 – December 2021

Senior Software Engineer

Plentific Ltd, 119-121 Cannon Street, London, EC4 5AT

– Developed and maintained Cloud-Native microservices as part of a cross-functional product team.
– Collaborated on the adoption of Event-Driven Architecture (EDA), contributing to the implementation of Kafka-based workflows.
– Focused on backend development and system integration, ensuring high code quality and maintainability.
– Worked closely with fellow engineers and Product Managers to deliver features aligned with business needs.
– Actively participated in DevOps activities, supporting CI/CD pipelines and improving development workflows.
– Contributed to platform observability initiatives, enhancing monitoring and troubleshooting capabilities.
– Provided mentorship and support within the team, fostering a culture of knowledge sharing and continuous improvement.

Stack   Python, Django, Django REST Framework, Celery, PostgreSQL, AWS, Kubernetes, Loki, Grafana

Skills   Technical Leadership, Software Architecture, Web Back-end Development

March 2020 – September 2023 | CTO

Devied Srls, Via Settembrini 19, 73100 Lecce Italy

– Co-founded Devied Srls, a tech startup focused on delivering a general-purpose web platform for real-time content streaming in the Education sector.
– Defined and executed the technical vision as CTO, balancing business goals with technology strategy and platform scalability.
– Led the design and development of a microservices-based architecture, covering Identity Management, WebRTC Session & Signaling, Payments, and more.
– Conducted technical analysis and benchmarking of open-source solutions for real-time media streaming and processing.
– Designed and implemented the platform's UX and UI, ensuring an intuitive and engaging user experience.
– Established CI/CD pipelines and DevOps practices, streamlining development workflows and accelerating feature delivery.
– Provided hands-on leadership across the entire product lifecycle, from initial concept to production deployment.

Stack   Java, Spring, Spring Boot, WebRTC, Keycloak, PostgreSQL, Azure, Kubernetes

Skills   Technical Leadership, Software Architecture, Web Full-Stack Development

September 2018 – December 2020 | Application Security Engineer

Logispin Italia Srl, Via Bari 11, 73100 Lecce Italy

– Part of the Platform team with an unofficial role as Solutions Architect, leading the evolution of system architectures, methodologies, and security practices.
– Led penetration testing and vulnerability assessments for web applications, identifying and mitigating security risks across the platform.
– Conducted comprehensive risk analysis and threat modeling, ensuring that applications were built with security in mind from the ground up.
– Performed code reviews to detect security flaws and vulnerabilities in the development lifecycle, providing actionable feedback to engineering teams.
– Established and maintained security policies and guidelines, ensuring that all development teams adhered to best practices and industry standards (OWASP, GDPR, etc.).
– Promoted DevSecOps principles by integrating security into the CI/CD pipeline, automating security scans (SAST/DAST) and ensuring continuous security validation.
– Evangelized secure coding practices and security awareness across the organization, delivering training and workshops to developers on common vulnerabilities and mitigations.
– Worked closely with platform architects to enhance the security of underlying infrastructures and ensure the resilience of distributed systems.
– Participated in incident response planning and vulnerability management, addressing security breaches and providing post-mortem analysis to improve future resilience.

Skills   Application Security Architecture, DevSecOps, Web Back-end Development

February 2020 – July 2020   Technical Lead

Pleaseup Spa, Via Umberto I 15, 73100 Lecce Italy

– Led the backend development of a web portal for the Public Administration in the pharmaceutical sector, ensuring high standards of quality and efficiency.
– Designed and implemented enterprise-grade backend components using Spring Framework and Oracle Database.
– Coordinated a small team of software engineers, providing technical guidance and overseeing code quality and best practices.
– Acted as a liaison with other supplier companies involved in the project, ensuring seamless collaboration and alignment on technical and business requirements.
– Contributed to architectural decisions and project planning, supporting the delivery of a robust and scalable platform.

Stack   Java, Java EE, Oracle Database

Skills   Technical Leadership, Software Architecture, Web Back-end Development

January 2016 – August 2018   Software Architect

Stentle Srl, Via Maurizio Quadrio 20, 20154 Milan Italy

– Led the design and implementation of the STENTLE Omni-Channel Commerce Platform, focusing on a microservices-oriented architecture and employing modern technologies like REST, CQRS, and event-sourcing.
– Acted as a hands-on Software Architect, actively contributing to the development of platform components, from back-end microservices to front-end integrations, utilizing best practices in software engineering.
– Designed and implemented containerization and orchestration solutions using Docker and Kubernetes, ensuring scalability and portability of the platform.
– Oversaw continuous integration and continuous delivery (CI/CD) pipelines, promoting DevOps principles and ensuring rapid, reliable deployment cycles.
– Led cross-functional teams in the development of various projects, including back office applications, white-label mobile apps, and integration services, ensuring alignment with customer requirements.
– Collaborated closely with customers on consulting projects, understanding their needs and providing tailored technical solutions based on the STENTLE platform.
– Mentored junior engineers and guided them in adopting best practices for software development and architecture design.
– Focused on ensuring the platform was both highly scalable and resilient, enabling seamless user experiences across multiple channels.

Stack   Java, Spring Boot, Docker, Kubernetes, REST, CQRS, Event-Sourcing, AWS

Skills   Technical Leadership, Software Architecture, Web Back-end Development, DevOps

May 2014 – December 2016   Software Engineer

WebScience Srl, Viale Edoardo Jenner 51, 20159 Milan Italy

– Contributed to the development and extension of the Atlas and Kplace certification engines, which supported the ECDL/ICDL certification program, enhancing the platform's functionality and performance.
– Played a key role in the development of Kplace Learning Platform, an educational framework designed to support the ECDL syllabus, providing training tools and a comprehensive workflow for learners.
– Worked on maintaining and improving the company's core products, ensuring the platforms were scalable, efficient, and able to meet the evolving needs of the certification program.
– Actively contributed to the architecture and design of features to improve the overall user experience and ensure compatibility with certification standards.

Stack   Java, Java EE, Oracle Database, Hibernate, Tomcat

Skills   Technical Leadership, Software Architecture, Web Back-end Development, DevOps

November 2012 – January 2013   Software Developer Intern

WebScience Srl, Viale Edoardo Jenner 51, 20159 Milan Italy

– Developed the CEPIS e-Competence Benchmark, an online tool supporting ICT profession-als in career planning.
– Collaborated with a team to integrate the European e-Competence Framework into the tool.
– Enhanced user experience by implementing interactive features and ensuring compatibility with various devices.

Stack   PHP, Zend Framework, MySQL, LAMP

Skills   Web Back-end Development

EDUCATION AND TRAINING

April 12, 2018   **Cloud Conf 2018**

Corley S.r.l.

Various technical speeches about software architectures, software development technologies, cloud computing, IoT, etc.

March 10, 2017   **Cloud Conf 2017**

Corley S.r.l.

Various technical speeches about software architectures, software development technologies, cloud computing, IoT, etc.

November 25-26, 2016   **Codemotion Milan 2016**

Codemotion S.r.l.

Various technical speeches about software architectures, software development technologies, cloud computing, IoT, etc.

March 10, 2016   **Cloud Conf 2016**

Corley S.r.l.

Various technical speeches about software architectures, software development technologies, cloud computing, IoT, etc.

November 20-21, 2015   **Codemotion Milan 2015**

Codemotion S.r.l.

Various technical speeches about software architectures, software development technologies, cloud computing, IoT, etc.

March 20, 2015   **CloudWorkshop 2015 | Provisioning & Orchestration con Saltstack**

Corley S.r.l.

Implementation through the use of SaltStack of a sample SaaS transparently portable on Amazon Web Services and DigitalOcean.

March 19, 2015   **Cloud Conf 2015**

Corley S.r.l.

Various technical speeches about software architectures, software development technologies, cloud computing, IoT, etc.

March 17-19, 2015   **Publication: "A new vehicle-to-grid system for battery charging exploiting IoT protocols"**
                                                                          IEEE ICIT

IEEE International Conference on Information Technology (ICIT), 2015 [1]

Abstract   The continuously rising demand for electricity has prompted governments and industries to research more effective energy management systems. The Internet of Things paradigm is a valuable add-on for controlling and managing the energy appliances such as Plug-in Electrical Vehicles (PEV) charging stations. In this paper, we present a Demand Response implementation for PEV charging stations able to use Wireless Sensor Network technologies based on the Constrained Application Protocol (CoAP). We developed a self-service kiosk system by which the user can autonomously swipe his/her credit card and choose the charging station to enable. When a user plugs his/her vehicle to the station, s/he subscribes his availability to share a portion of its energy. When the grid requests a contribution from the PEVs, the kiosk sends a CoAP message to the available stations and the energy flow is inverted (Vehicle-to-Grid). At the end of the charging process, the user's credit card gets charged with a discounted bill.

November 4, 2014   Milano JS | Polymer: lego for the web

Milano JS

Presentation of the Polymer project.

October 24, 2014   Workshop CloudParty | CloudParty: PHP & Cloud

Corley S.r.l., Zend Technologies Ltd

A few speeches such as "PHP and Mysql meet the Cloud: limitless scalability", "Scale PHP applications on the Cloud with Elastic Beanstalk", "Develop REST API with ZF2 and MongoDB", "Design RESTful architectures in PHP with Apigility", and "Scale out MySQL databases".

October 6-7, 2014   Certificate of attendance with assessment of "Formazione generale dei Lavoratori"

AiFOS

It covers topics such as the risk perception, the corporate organization of prevention, the subjects of security, the workers, the personal protective equipment, the supervision and the sanctions, and the information, education and training.

May 7-8, 2014   Workshop GS1 Italy | Indicod-Ecr

GS1 Italy

It addresses issues relating to distance selling of food and other types of products and the need to effectively share data between these companies and distribution industry, and to provide them to consumers. It has been held at the University of Salento, with final evaluation test passed.

2010 – 2014   MS in Computer Engineering   110/110

Università del Salento, Lecce, Italy

It aims to delve into the different application areas of computer engineering. In this context, it guarantees the deepening of research problems in computer networks, software applications and information systems, High-Performance Computing, and automation areas.

I presented my thesis entitled "Design and development of an open ICT architecture to support semantic incentive-based Demand Response in the Internet of Energy", supervisor Prof. Luca Mainetti, in collaboration with the UCLA Smart Grid Energy Research Center. In this work I propose an ICT architecture for the Internet of Energy aimed to enable a "smart" energy management and distribution in the near future, dealing with the challenges of the Smart Grid research area and taking advantage from the advancement of the Internet of Things and semantic technologies.

2005 – 2010   BS in Computer Engineering   104/110

Università del Salento, Lecce, Italy

It foresees a course of study which aims to provide an adequate knowledge both in basic subjects such as mathematics and physics, and in the context of computer, electronics, telecommunications, and automation engineering.

I presented my thesis entitled "Reingegnerizzazione di applicazioni legacy: analisi del codice attraverso dominio applicativo", supervisor Prof. Luca Mainetti. In this work I deal with the need of a methodology for migrating so-called Legacy Systems towards modern Open Source ICT architectures, also through the implementation of a code analysis enviroment as a plugin for a well-known IDE, Eclipse.

| 2000 – 2005 | **Scientific High School Diploma** | 97/100 |

Liceo Scientifico e Linguistico Antonio Vallone, Galatina, Italy

PERSONAL SKILLS

Mother tongue	Italian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	C1

<div style="text-align:right">English</div>

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Computer skills

- Software Development
- Software Engineering
- Software Architecture
- Enterprise Architecture
- Microservices Arcitecture
- Internet of Things
- Software Development Process
- Software Development Methodology
- Agile Methodology (Scrum, Kanban, etc.)
- Design Patterns
- CVS (Git, Subversion, Mercurial, etc.)
- Databases (Oracle Database, PostgreSQL, MongoDB, etc.)
- Web Services (REST, RPC, GraphQL, etc.)
- DevOps
- Containerization (Docker, etc.)
- Orchestration (Docker Swarm, Kubernetes, etc.)
- Message Brokers (RabbitMQ, etc.)
- Cloud Computing (AWS, GCP, Microsoft Azure, etc.)
- C
- C++
- Python
- Django Framework
- Java
- Java EE
- Spring Framework (Spring MVC, Spring Data, Spring Integration, Spring Cloud, Spring Boot, etc.)
- PHP 5+
- Zend Framework 2+
- Symfony
- Laravel
- HTML 5
- CSS 2+
- ECMAScript
- JavaScript
- AngularJS
- React
- Android Mobile Development
- GNU/Linux System Administration
- Bash

Driving licence	European B Driving License

PUBLICATIONS

[1] A. Fachechi; L. Mainetti; L. Palano; L. Patrono; M. L. Stefanizzi; R. Vergallo; P. Chu; R. Gadh. "A new vehicle-to-grid system for battery charging exploiting IoT protocols." In: *IEEE ICIT 2015* (2015).