Stefano Dalla Palma, PhD

PhD. Software and Data Engineering
Tech Academy Engineer at Adyen, Amsterdam
LinkedIn | Github | Coursera | Google Scholar

Summary

Experienced Software Engineer with over 5 years in software design, development, and scientific research. Currently serving as a Tech Academy Engineer at Adyen, specializing in developing and delivering comprehensive training on internal tools and engineering frameworks. Proven track record in **mentoring engineers**, **enhancing technical skills**, and **boosting team productivity**. Strong proficiency in **Java** and **Python** for tool development, with deep expertise in **implementing engineering best practices** such as Refactoring to Design Patterns, Design for Testability, and effective Testing strategies.

Experience

Dec 2022 - Present (2 years)
Adyen - Tech Academy Engineer
SpringBoot | Mentoring | Training

- **Developed and delivered training** on **internal tools, frameworks,** and **software design best practices**, benefiting **250+ engineers** and **improving code quality and maintainability** across multiple teams.
- **Mentored** junior engineers and tech support engineers, leading to their hiring in core development teams for internal mobility.
- **Enhanced workflow efficiency** by **automating manual processes**. Integrated Zoom, Google Calendar, and LDAP, reducing tasks from two days to just a few minutes, minimizing errors and freeing up colleagues for higher-value work.

Feb 2019 - Mar 2023 (4 years)
Tilburg University - PhD Candidate [thesis]
Empirical Research | Machine Learning | Predictive Maintenance | Scientific Writing | Public Speaking

- **Conducted advanced research on machine learning-based defect prediction** for Infrastructure as Code (IaC), focusing on improving reliability and maintainability of cloud-based services through predictive modeling.
- **Designed and developed a tool suite** in Python for early defect detection, enhancing early detection and resolution of potential issues.
- **Led empirical experimentation** to validate model effectiveness, and **communicated findings** to **academic peers** in top-tier journals and conferences and **industrial partners**, contributing to the success and knowledge dissemination of the RADON project.
- **Assisted in teaching** the "Introduction to Machine Learning" course, providing guidance and support to students, thereby enhancing their understanding of core **machine learning** concepts.

Featured Skills

- **Programming paradigms:** Object-Oriented | Procedural | Functional | Logical
- **Dev:** Java | Python | Kotlin | Docker | CI/CD
- **Frameworks:** SpringBoot | FastApi | pyDriller | sklearn | imblearn | deap
- **Machine Learning:** (Un)supervised | Basic Neural Networks | GenAI
- **Communication:** Teamwork | Public Speaking | Scientific Writing | Teaching
- **Critical Thinking:** Problem Solving | Research | Adaptability & Flexibility
- **Leadership:** Decision Making | Project Management | Supervising