Fabio Barbieri

Software Engineer

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I am a software engineer with strong foundations in object-oriented programming, machine learning, distributed systems, databases and networking. Recently, I started working as a Tutor in tech, designing and implementing online courses from scratch. Outside of work, I have a keen interest in sports, history, and outdoor activities, which keep me grounded and inspired. People usually say I'm easy to get along with.

SKILLS

- Object-oriented programming, Machine learning and Deep learning, distributed systems, databases, cloud computing, networking
- Java, Python, Javascript, Typescript, Rust, C, SQL
- Spring Boot, ExpressJS, Flask, React, PyTorch, TensorFlow, Spark, Hadoop
- MongoDB, PostgreSQL, MySQL, Docker, Kubernetes, Jenkins, AWS (S3, EC2, RDS, CloudWatch, Lambda)

WORK EXPERIENCE

- **Software engineer & Tutor- UniversiData, Nov 2024**

  I'm working on an optimization and forecasting model for a financial use case.
  As a Tutor, I'm producing a FullStack Development online course (HTML, CSS, JS, Node, React, Express, Mongo).
  Main technologies: Python, SQL, Tensorflow, PowerBI, Time series forecasting.

- **Web Developer - Freelance, Feb 2022 - Mar 2024**

  I helped small regional businesses with web applications and integrations, which funded my Master's studies.
  Main technologies: Java, SpringBoot, JavaScript, ExpressJS, React, Python, AppScript, Google APIs, and Firebase.
  - Saved an average of 6k/year thanks to my code by cutting dependencies on third-party SaaS.

- **Software engineer - Ro Technology & Sky IT, Sep 2021 - Sep 2022**

  Backend consultant at Sky IT. Developed microservices both from scratch and by refactoring legacy monoliths using Java, Spring Boot, PostgreSQL, MongoDB, Docker, Jenkins, and AWS cloud services.
  - Achieved a 20% reduction in response time on refactored microservices (measured with AWS CloudWatch).

- **Software engineer - Daje! Shop Startup, Aug 2020 - Aug 2021**

  I built a platform to manage the order lifecycle for customers, merchants, and admins by integrating Shopify with custom mobile apps and third-party ticketing systems.
  - Reduced the agreed time-to-market by 25%: delivered in 3 months instead of 4
  - Reduced the time spent on ticket resolution by the Operations team by 75% - 1.5h/day instead of 5h/day
    Increased the average number of daily fulfilled orders by merchants up to +35%

EDUCATION AND CERTIFICATIONS

- **AI and Data Analytics Master Degree - Politecnico di Torino, 2022 - 2024**
  - Thesis: Personal coach based on generative AI (LLM fitness and wellbeing recommendation system)
  - Extracting features from medical images (Python, PyTorch, Self-Supervised Learning, Representation Learning)
  - *Activation shaping for domain adaptation* (Python, PyTorch, CNNs domain adaptation)

- **Computer Engineering Bachelor Degree - Università di Roma Tre 2017 - 2022**
  - Thesis, graded **107 / 110**: Proximity e-commerce marketplace.
    Main technologies: Java, Typescript, SpringBoot, Swagger, PostgreSQL, MongoDB, Docker, React

- **English IELTS C1 Certification (7.5):** 22IT009057BARF010A