Marian Alexandru Diaconu

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Skills

- Python | Java | Scala | JavaScript | TypeScript | C# | Ruby | Docker | Docker Compose | Django | Ruby on Rails | Redis | PostgreSQL | Play Framework for Scala | Node.js with Express | Angular | .NET | REST API | Unit Testing | OOP | Git | GitLab | Bitbucket | CI/CD
- Google Cloud | AWS | Cloud Computing | Kubernetes | Spark | Airflow | Machine Learning | Artificial Intelligence | MLOps | Microservices | Distributed Systems | Backend | Software Engineering | Jira | Agile | UML | English, Italian, Romanian – *All professional proficiency or above*

Experience

Software Engineer | Project Manager — **[Bluetensor](#)** — *Trento, Italy* **05/2022 – 03/2024**

- Led the design, development, and deployment of multiple enterprise-level microservice **AI**-centered applications of the **NLP** unit, driving €1 million of revenue using the latest technologies of **Python, Django, AWS, Docker, PostgreSQL and Redis.**
- Collaborated with the Sales department to define budget bound project proposals for clients and translated project requirements from formal documents to tasks, stories, and epics using the **Jira** ticketing system, simplifying project planning.
- Collaborated with clients to define requirements using Software Engineering tools such as **UML** diagrams, enhancing the communication with the production department.
- Maintained relations with clients through regular alignments and interactions to Agile methodologies, enhancing project delivery speed.
- Led the NLP unit through regular alignments, discussions, and retrospectives, enhancing project engagement, design, and development.
- Implemented new features through **REST API**s using **Agile** methodologies to enhance project delivery speed.
- Supported the development team by researching and prototyping new techniques and tools, resulting in improved feature implementations.
- Designed, developed, and maintained **AWS** cloud components and integrated them with CI/CD Pipelines to expedite the release process.
- **Reported directly to CTO and CEO**: wrote multiple documents from project proposals to research and performance reports used by the board of directors in the decision-making process.

Software Engineer — **[Fraudio](#)** — *Amsterdam, Netherlands* **09/2020 – 04/2022**

- Supported Fraudio Fraud Detection System with engineering activities using the latest technologies of **Python, Scala, Play Framework, Databricks, Spark, MLFlow, Airflow, Kubernetes, Redis, PostgreSQL and Google Cloud**.
- Designed, developed, and deployed **ML** model artifacts, standardizing model shipment and expediting deployment. Implemented configuration-based runtime model selection for deploying multiple models on the same machine. Conducted deployment tests based on data scientists' expectations for production correctness.
- Engineered procedures for deploying large data volumes into in-memory databases to support complex ML models with runtime computed and precomputed features. Enhanced ML model serving applications with new features, including authentication and authorization.
- Built scalable REST APIs for efficient data collection and processing for ML model training. Developed and documented API Gateways for streamlined customer API integration.
- Improved system observability by integrating microservices with tracing systems for precise code correlation with API problems. Managed incidents, defined monitoring metrics, and performed application debugging to resolve customer and internal issues.
- Integrated Continuous Integration/Deployment Pipeline, conducted pull requests, code reviews, load/stress testing, and unit testing.

R&D Software Engineer, Intern — **[Fraudio](#)** — *Amsterdam, Netherlands* **03/2020 – 09/2022**

- Conducted research on innovative distributed serverless caching systems for small objects management that reduced hosting costs from 31x to 96x using the latest technologies of **KNative (serverless K8S framework), AWS Lambda and Go**
- Developed my [master's thesis](#) on this project.

Full-stack developer — **[Edutech](#)** — *Trento, Italy* **04/2018 – 09/2018**

- Designed and developed utility software services for Edutech Learning Management System (LMS) using the latest technologies of **.NET, Angular, JavaScript, JQuery and Ajax.**
- Replaced Sharable Content Object Reference Model (SCORM) with Experience API (xAPI) in Edutech's Learning Management System (LMS), enhancing competitiveness in the market.

R&D Full-stack developer, Intern — **[Fondazione Bruno Kessler](#)** — *Trento, Italy* **06/2017 – 04/2018**

- Designed, developed, and tested CoachAI, a platform consisting of a conversational assistant and a management platform for monitoring patients' progress through chatbot data using the latest technologies of **Ruby on Rails, Javascript and Telegram Bot API**
- Developed my [bachelor thesis](#) on this project.

Education

Master of Science in Computer Science — **University of Trento** — *Trento, Italy* **2018 – 2021**

- Major in Software and Service Architectures

Bachelor of Science in Computer Science — **University of Trento** — *Trento, Italy* **2015 – 2018**

- Major in Computer Science and Technology