MARIAN ALEXANDRU DIACONU

Software Engineer | Developer

CLOUD COMPUTING ENTHUSIAST | SOFTWARE DESIGNER | SELF CRITICAL | GROWTH FOCUSED

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ABOUT ME

Freshly graduated software engineer with base experience in autonomously handling projects from research to deployment. Cloud computing enthusiast looking for a new realities to put my energies into. I am interested in backend engineering positions where I can give my contribution while learning new skills and improving existing ones. My aspiration is to become a skilled engineer with a specialization in automation. Ultimately I am also exploring DevOps and Infrastructure world, therefore I am keen to start a new journey in this area.

EXPERIENCE

09/2020 – 04/2022 **Software Engineer** Self Employed | Freelance
Fraudio, Amsterdam, NL

Supported Fraudio Fraud Detection System with engineering activities such as design and development of:

- ML model artifacts, which enabled a standardized way of ML model shipment.
- Configuration-based ML model selection, enabling Fraudio to deploy multiple ML Models on the same machine and select them based on custom properties.
- ML models deployment and alignment tests based on data scientists' expectations to ensure correctness in production.
- Procedures to deploy a huge quantity of data into in-memory databases to support production ML models with additional pre-computed features enabling more complex models to be supported.
- New features for ML models serving applications such as authentication and authorization mechanisms easing customer on-boarding.
- Web APIs to collect and process data enabling ML models to be efficiently trained.
- API Gateway and Integration Documentation, making customer integration easier.
- DevOps automation through CI/CD.
- Incidents management and application debugging.

Technologies used: `SCALA` `PYTHON` `PLAY FRAMEWORK` `SPARK` `DATABRICKS` `KUBERNETES` `AIRFLOW` `GOOGLE CLOUD` `GITLAB`

03/2020 – 09/2020 **R&D Software Engineer** Internship
Fraudio, Amsterdam, NL

- Researched innovative distributed serverless caching systems solutions applied to small objects management (company's use case) that could reduce hosting costs from 31x to 96x.
- Developed my master's dissertation on such a thesis.
- Migrated Infinicache (a first of its kind distributed serverless caching system) from AWS Lambda to KNative.

Technologies used: `GO` `KNATIVE` `KUBERNETES` `AWS LAMBDA` `GIT`

04/2018 – 09/2018 **Full-stack Developer** Full-time
Edutech, Trento, IT

- Replaced Shareable Content Object Reference Model (SCORM) of Edutech Learning Management System (LMS) with Experience API (xAPI). This project helped the company to upgrade its LMS allowing them to be more competitive in the market.
- Designed and developed various utility software services necessary for internal and external procedures, managing most of the work independently but also coordinating with the team.

Technologies used: `ASP.NET` `ANGULAR` `JAVASCRIPT` `JQUERY` `AJAX`

06/2017 – 04/2018 **Full-stack Developer | Research Assistant**   **Internship**
Fondazione Bruno Kessler, Trento, IT ✎
- Designed, developed, and tested CoachAI, a platform composed of a conversational assistant who helps people promote a healthy lifestyle and a related management platform that allows doctors to monitor their patients' progress based on data collected through the chatbot.
- Developed my bachelor thesis ✎ on such a project.
- Participated in user-centered testing sessions and developed other conversational agents to support those activities allowing research project improvements.

Technologies used: `RUBY ON RAILS` `JAVASCRIPT` `JQUERY` `AJAX` `TELEGRAM BOT API`

EDUCATION

M.Sc. in Computer Science
Software and Service Architectures
University of Trento ✎

B.Sc. in Computer Science
Computer Science and Technology
University of Trento ✎

SOFT SKILLS

📅 **Organisational**
Autonomous, adaptable, outside the box thinker.

💬 **Communication**
Effective communicator and team worker.

🕴 **Aptitude**
Positive, precise.

LANGUAGES

Italian	Native
Romanian	Native
English	Fluent

SKILLS, TOOLS & PLATFORMS

☑ Technical knowledge

Algorithms	●●●●○
Distributed Systems	●●●●○
Cloud Computing	●●●●○
Software Engineering	●●●●○
SCRUM Methodology	●●●●○
Prototyping	●●●●○
Software Architectures	●●●○○
Machine Learning	●●●○○

☑ Programming languages

SQL	●●●●○
Scala	●●●○○
Python	●●●○○
Bash	●●●○○
Java	●●●○○
Ruby	●●●○○
C#	●●○○○
**Javascript	Typescript**	●●○○○

☑ Markup Languages

HTML	●●●●○
XML	●●●●○
CSS	●●●○○
Latex	●●●○○

☑ Databases

Redis	●●●○○
Postgresql	●●●○○
SQLite	●●●○○
Kafka	●○○○○

☑ Frameworks

Play Framework for Scala	●●●●○
Ruby on Rails	●●●●○
ASP.NET	●●○○○
Angular	●●○○○
Java Servlets with JSP	●●○○○
Node.js with Express	●●○○○

☑ Platforms and server technologies

Docker	●●●●○
Linux	●●●●○
Kubernetes	●●●○○
Spark	●●●○○
Airflow	●●○○○

☑ Development Tools

Git	●●●●○
Gitlab CI/CD Pipelines	●●●○○
SBT	●●●○○

☑ Cloud Services

Google Cloud Provider	●●●○○
Terraform	●●○○○