



MARIAN ALEXANDRU DIACONU

Software Engineer | Developer

BACKEND DESIGNER | CLOUD COMPUTING ENTHUSIAST | ENTREPRENEURIAL MINDSET | GROWTH
FOCUSED

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ABOUT ME

Mid/senior software engineer with experience in AI-centric software and not only. During the years I've acquired experience in autonomously handling projects from research to deployment. My main objective is to keep grinding my skills in the direction of building software that brings value to customers in an agile and reliable way, with the objective of launching my own company or product one day.

EXPERIENCE

05/2022 – present

Software Engineer & Assistant Project Manager
Bluetensor, Trento, IT 🇮🇹

Self Employed | Freelance

Managed, designed, developed and maintained AI-centred projects (Natural Language Processing and Computer Vision) and not only. Specifically I supported Bluetensor microservices environment with project management and software engineering activities such:

- Adapted interaction with clients based on Agile methodology that led to an easier and cleaner of the project planning and delivery processes
- Design, development and delivery of new features on an Agile-based Methodology that improved overall delivery process speed
- Evolved Monitoring techniques that led to a better maintenance of production software
- Design, development and maintenance of new parts of the Cloud Infrastructure and of the Continuous Integration Pipeline that led to a faster release process
- Design and development of a Machine Learning Experimentation environment enabling the team to easily test and validate new solutions for customers
- Design and development of MLOps such as models tracking, integration, and delivery that led to a faster ML models development and integration

Technologies
used:

PYTHON

DJANGO

DOCKER COMPOSE

AWS CLOUD

ANSIBLE

MLFLOW

BITBUCKET

NLP

09/2020 – 04/2022

Software Engineer
Fraudio, Amsterdam, NL 🇳🇱

Self Employed | Freelance

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**
Fraudio, Amsterdam, NL

Internship

- 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**
Edutech, Trento, IT

Full-time

- 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**
Fondazione Bruno Kessler, Trento, IT

Internship

- 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	● ● ● ● ●

✓ Markup Languages

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

✓ Programming languages

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

✓ Databases

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

✓ Frameworks

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

✓ Development Tools

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

✓ Platforms and server technologies

Docker and Docker Compose	● ● ● ● ●
Linux	● ● ● ● ●
Kubernetes	● ● ● ● ●
Spark	● ● ● ● ●
Airflow	● ● ● ● ●

✓ Cloud Services

Google Cloud	● ● ● ● ●
AWS	● ● ● ● ●
Terraform	● ● ● ● ●

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