Maximilian Stefan Floroiu

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WORK EXPERIENCE

marXact   **Hilversum**

Software Engineer   *Oct 2021 - Present*

Flutter

- Leading a small team of developers towards the development of a cross-platform (**iOS/Android**) digital centimeter accuracy surveying application. The application integrates OpenID authorization and authentication protocol, **API communication** with a microservice ecosystem and **web socket communication** for RTK GPS information and **data synchronization** with the Cloud for **real-time vizualization** of the field workers' progress. The application implements a **BLoC** state management with a **decoupled architecture** allowing for **maintainability** and **modularity**.
- Built a **CI/CD** pipeline using **Fastlane** and **GitLab**.
- Developed **Unit Testing**, **Behavioural Testin**g and **Integration Testing** plans for the app.
- Developed **on-boarding plans** and tutorials for future colleagues.

.Net / DevOps

- Maintained .NET and Python microservices.
- Developed **Helm**-charts for our **Kubernetes** deployments
- Implemented CI/CD pipeline using **ArgoCD** and **TeamCity**
- Implemented monitoring services using **Prometheus**, **Grafana**, **Scaphandre**, **ElasticSearch/Kibana**
- As part of my Master's Thesis project, I implemented **Anomaly Detection** and **Root Cause Analysis** algorithms to analyze CPU/energy consumption and high latency patterns

Alten   **Bucharest**

.Net Developer   *Sep 2020 - July 2022*

- Developed UI Interfaces using WPF for a telemedicine booth software solution
- Worked with **Apache Kafka** for a message based system
- Worked on improving the **VOIP** solutions for telecomunication between one to many endpoints
- (doctors – patients) using PortSIP and Vonage.
- With the usage of bash scripting, I deployed measures of distribution and configuration of updated SSL security certificates
- Integrated hardware equipment to our telemedicine WPF solution such as Welch Allyn EKG equipment, RCC(maneuvering joystick that replaces use of touch screen for individuals with disabilities)

Flutter Developer

- Led a small team of developers and a tester towards the development of a hybrid mobile application using Flutter Framework. The application integrated RESTful **API communication** and Google Maps API real time location tracking, with native code (Swift 5 / Kotlin) injections.
- Developed a Web solution for AES256 generation and encryption of QR Codes data for the application

Pluriva   **Bucharest**
MSSQL Developer Intern   *Apr 2019 - May 2019*
- Assigned to aid fellow Interns in their training around SSMS and Sql Server
- Developed solutions(stored procedures) for the company's ERP product clients.

Ziarul Financiar   **Bucharest**
Financial News Editor Intern   *July 2018 - Aug 2018*
- Took a one month mentorship programme in a financial industry oriented newsroom.
- Learned to assimilate information from a variety of news giants (Reuters, CNBC, Investing.com, Financial Times), curate the information and build it up into into a news piece.

Microsoft   **Bucharest**
Microsoft Mentorship Program   *Sep 2015 - Feb 2016*
- Developed a game in C++ within a team of highschool students.

PUBLICATIONS

Petalotis, C., Krumpak, L., Floroiu, M. S., Ahmad, L. F., Athreya, S., & Malavolta, I. (2023).
An empirical study on the performance and energy costs of ads and analytics in mobile web apps.
Elsevier Journal of Mobile Computing

EDUCATION

Vrije Universiteit Amsterdam   *Sep 2021 - Jan 2023*
M.Sc. Software Engineering and Green IT. - "A Comparative Analysis of Anomaly Detection and Root Cause Analysis on Energy Consumption in Microservice-based systems"

The Bucharest University of Economic Studies   *Oct 2017 - July 2020*
B.S. Computer Science & EconomicsGPA: 8.8/10

- Developed a **Blazor ASP.NET** web application as my bachelor thesis on Financial Invesments
- The application has been continuously built upon and recently migrated from local development with Git versioning to cloud(Azure), using **Azure SQl** and **Azure SignalR** service for fetching data.
- The application uses 20 yeas worth of raw data on Equities, Indices, Forex, Commodities & ETFs that is being extracted using a web scraper at the end of day closing values

CERTIFICATIONS

- Google - Agile Project Management   *July 2021*

- Google - Foundations of User Experience (UX Design)   *June 2021*
   CreateHigh-Fidelity Designs and Prototypes in Figma
   Build Wireframes and Low-Fidelity Designs
   Responsive Web Design in Adobe XD

- Oracle Academy - Database Design and Programming with SQL   *Feb 2019*