



Florin Balint

SOFTWARE ENGINEER

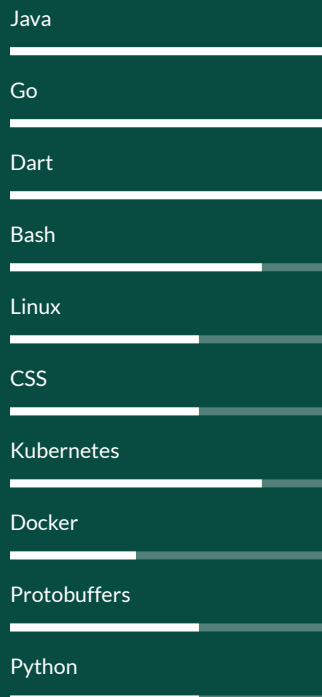
Details

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Switzerland
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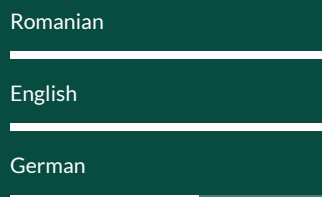
Links

Web resume
Github
Linkedin

Skills



Languages



Profile

Dedicated Software Engineer with ~9 years of experience in delivering robust infrastructure solutions and high-frequency data distribution systems.

Proven track record in developing automation workflows, managing large-scale data pipelines or building web service / user interfaces.

Proficient in **Java**, **Go** and **Dart** and with good understanding of **Kubernetes**, **Docker**, and **Linux** environments.

Committed to delivering quality software solutions and continuously enhancing technical skills to stay ahead of the evolving technology landscape. Eager to contribute to ambitious projects.

Employment History

Software Engineer, Google Switzerland GmbH, Zürich

FEB 2019 – PRESENT

- Worked on an internal development platform for running Google services in **Google Kubernetes Engine**. Used **Go**, **Java** and **Python**-like configuration language.
- Created a workflow for setting up new servers in production automatically including configuration, CI/CD, monitoring and default AuthN/AuthZ. Used **Go** templates with an internal Infrastructure as Code tool and a **Python**-like configuration language.
- Extended the Google Duplex on the Web (**C++ infra**) to serve different automation scripts for the same website in a A/B testing manner.
- Developed and maintained a *Google Shopping* data pipeline that was aggregating Merchant statistics (tens of billions of offers / hundreds of Terabytes) daily.
- Developed Advanced data source management for *Google Merchant Center* Next front end, using the **Angular Dart** framework. The tools are needed by large retailers who spend **>20 billion \$** annually on *Google Ads*.
- Worked on a feature that directly crawls Merchant offers from their websites into Merchant Center. I worked on all parts of the feature including data modeling, offline processing, online serving / API and Front End.

Software Developer, Tora Trading Services, Cluj-Napoca

AUG 2015 – DEC 2018

- Developed a high frequency Market data distribution application for *Tokyo Stock Exchange*. Achieved a latency reduction from **7µs** to **3µs**, using lock-free concurrent queues.
- Integrated a legacy 32 bit Visual Basic API (Windows) using **Java-COM bridges** into one of our distributors.
- Implemented smart limits in a proprietary Order Execution Management System, enabling traders to set order restrictions with custom using free-text rules (using predefined keywords, like "*exposure > 0.05 and price < 100*").

Teaching Assistant, Technical University of Cluj-Napoca, Cluj-Napoca

OCT 2017 – JAN 2019

- Instructed laboratory classes on *Object Oriented Programming* (writing **Java**) and *Fundamental Algorithms* (writing **C/C++**).
- Developed more engaging teaching methodologies, with the scope of enhancing student understanding of the programming concepts.
- Designed and evaluated teaching materials, aligning with predefined topics.

Hobbies

I like to keep myself informed on different topics by listening to podcasts or audio books while commuting or working out.

Outside of work, I often spend my time engaging in physical activities.

This includes long-distance running, weightlifting or hiking.

Lately, I have been combining hiking and traveling experiences with photography.

Education

Master Degree in Computer Networking and Distributed Systems., Technical University of Cluj-Napoca, Cluj-Napoca

SEP 2016 – JUL 2018

Continued my studies and further specialized my knowledge. The degree included both theoretical and practical challenges.

*Thesis: "**High performance concurrent data structure**" - building queues and hash maps that avoid locking to improve throughput.*

Bachelor's degree in Computer Engineering, Technical University of Cluj-Napoca, Cluj-Napoca

SEP 2012 – JUL 2016

Focused on learning computer software and hardware concepts, but also covering engineering classes like mathematics or physics to form a strong base.

*Thesis: "**Clique based social graph clustering**" - unsupervised learning, trying to form groups from graph cliques, by applying different heuristics.*

Internships

Java intern, Tora Trading Systems, Cluj-Napoca

SEP 2015 – DEC 2018

- Gained practical experience in Java development, emphasizing best practices and common pitfalls.
- Collaborated with a team of interns to design and implement a calendar application for managing employees time-off.

.NET intern, Accessa.eu, Cluj-Napoca

JUN 2014 – SEP 2014

- Developed proficiency in C# and core .NET technologies, including ASP.NET MVC and Team Foundation Server.
- Contributed to the development of a web-based resource management system (printers, staplers, contracts .etc).