



# Florin Balint

SOFTWARE ENGINEER

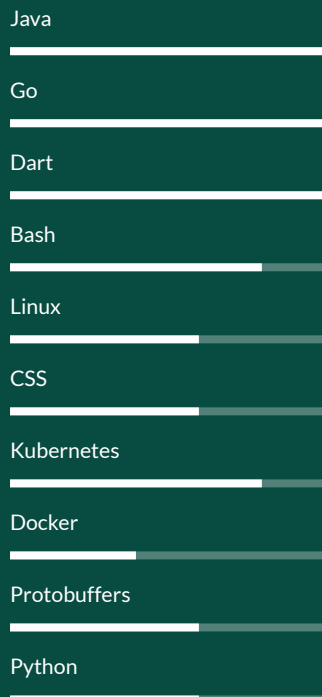
## Details

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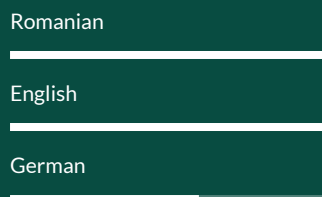
## Links

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).