Jakub Czajka

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Work experience

June 2023 – Present

Google, Warsaw, Poland

Software Engineer Tech Lead

November 2023 – May 2025

Google, Warsaw, Poland

Software Engineer III (L4)

June 2022 – October 2023

Software Engineer II (L3)

I lead the development of a highly available, high throughput spatial scheduling system for the cluster management system Borg. It optimizes Google's fleet by recommending clusters where individual workloads should be scheduled. Highligths:

- Fix a bug manifesting across multiple systems which lead to workloads being placed in overutilized clusers.
- Integrate system to consider power utilization in cluster recommendations.
- Change cluster recommendations to reduce inter-cluster network traffic by up to 90%.

January 2021 – April 2022

Amazon, Gdańsk, Poland

Software Development Engineer (L4)

Development of an on-device processing engine for Amazon Alexa. The engine uses machine learning to process user's voice on many different Alexa architectures, often under heavy resource constraints.

June 2020 – September 2020

Amazon Web Services, Berlin, Germany

Software Development Engineer Intern

Research and implement a prototype of a user interface for SCRUM planning sessions.

June 2019 – September 2019

European Organization for Nuclear Research (CERN), Gevena, Switzerland

Software Engineering Intern

Development of a platform for self-teaching FESA - a real-time framework for controlling and monitoring particle accelerators.

Education

October 2017 – January 2021

AGH University of Science and Technology, Kraków, Poland

Bachelor's degree in Computer Science

- Final grade: 5.0 (GPA 4.71, top 10%).
- Multiple scholarships for excellent grades.
- Thesis: "Framework for distributed big volume data analysis from LHC ALICE experiment (CERN) using O2 software package".

Publications

- **J. Czajka**, J. Otwinowski, and J. Kitowski, "Non-Intrusive Data Inspection for Message-Based Systems", Comput. Inform., vol. 40, no. 4, pp. 796–814, Dec. 2021. https://doi.org/10.31577/cai_2021_4_796.

Personal projects

My projects are available at git.ekhem.eu.org. Highlights:

- gym.git - HTTP interface for a database tracking gym progress. **Technologies**: HTTP Nginx server with shell scripts connected through fastCGI, Postgres.
- gdrive_knife.git - Swiss army knife for working with Google Drive. Provides commands for encrypting, archiving and uploading files. **Technologies**: Python, OAuth, Google Drive API, symmetric cryptography.
- server.git - Configuration files for many services deployed on a server. **Technologies**: Postfix, Dovecot, Postgres, fail2ban, Matrix and more.
- metadata.git - Metadata files (descriptions, hooks etc.) for the other git repositories. Contains many Ansible scripts for deploying other server's services.