

Work experience

- **Leanplum** *Senior Software Engineer, October 2017-February 2020*
 - Served as the technical lead for Leanplum's A/B testing functionality.
 - Contributed to the development of a complex reporting engine that handled terabytes of data per day and had a latency SLA of 300ms.
 - Set up a new team responsible for Email delivery and onboarded 2 engineers.
 - Conducted 20+ technical and behavioural interviews.
 - Managed an HDFS cluster with 200+ machines and 2+ petabytes of data.
 - Worked on the event management of an ingestion engine that handles 27B+ QPS.
 - Setup and managed an Apache Spark cluster for a machine learning algorithm for sending messages in the optimal time for users.

Technologies: Java, Python, Google Cloud Platform, Apache Spark, Apache Kafka, HDFS, HBase, Zookeeper, Dataflow, Cloud Pub/Sub, RabbitMQ, BigQuery, GCS, Spring Boot, Git

- **Facebook** *Software Engineer Intern, June 2017 - September 2017*
 - Implemented an anti-fraud algorithm for video ads delivery based on rate-limiting ad requests.
 - Built a system for end-to-end testing of video ads.
 - Rewrote multiple metrics for video view time and impressions based on thorough data analysis.
 - Introduced various improvements to a system for debugging video related metrics.

Technologies: Hack, Python, Mercurial, Presto, Dataswarm, React, Phabricator

- **Leanplum** *Software Engineer Intern, June 2016-September 2016*
 - Rewrote a MapReduce pipeline for sending messages to up to hundreds of millions of users. This resulted in a simplified design and 3x better performance of the module.
 - Implemented a heuristic for determining the optimal time for sending a message to users with missing data. The algorithm was based on an aggregation of the preferences of all users.
 - Built a system for monitoring the health of the modules responsible for sending emails and calling webhooks.
 - Parallelised an algorithm for monitoring the health of task queues, which lead to up to 8x better performance.

Technologies: Java, Python, Google MapReduce, BigQuery, Git

- **Tetracom** *Software Engineer Intern, July 2013-September 2013*
 - Built a hybrid mobile application for Android and iOS from scratch
 - Implemented an API for OAuth 2.0 authentication for a news aggregation project

Technologies: Java, Play Framework, Scala, JavaScript, SVN, Android

Education

- **ETH Zurich** *October 2015 - June 2017*
 - Master of Science (MSc), Computer Science, GPA 5.68/6.00, US \approx 3.70.
 - Thesis: *SIMD intrinsics on managed language runtimes*. Published at CGO'18.
 - Received a Master Scholarship for extraordinary academic performance.
- **Vienna University of Technology** *September 2012 - June 2015*
 - Bachelor of Science (BSc), Computer Science, GPA 1.28, US \approx 3.90.
 - Worked as a teaching assistant in 2 subjects for 3 semesters.