Mantas Matelis

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Experience

Robinhood | August 2019 – Current

Senior Staff Software Engineer | New York, New York

- Tech Led the Service Discovery & Communication team for four years, responsible for inter-service communication, loadbalancing, service discovery, ingress, and egress
- Designed and built a custom fail-static multi-cluster service-discovery system, migrating all production traffic to it
- Introduced gRPC to the firm, which is now the standard RPC mechanism for all new services
- Migrated Robinhood to an Envoy-based architecture for all ingress
- Designed and developed a high-performance C++ Envoy filter to perform JWT token revocation checks
- Helped grow the team from three to eight through hiring, mentorship, and culture-setting
- Now Tech Lead for Security Engineering, overseeing Cryptography, Cloud Security, IAM, and Network Engineering

Cardiogram | July 2018 – August 2019

Software Engineer | San Francisco, California

- Designed and executed on a plan to migrate the data store for all user biometric data from Postgres to Cassandra to improve latency and scalability
- Led infrastructure efforts: implemented an analytics pipeline, designed and built an A/B test framework, started initiative to integrate observability & alerting, decreased tail latency of the main application function 7x
- Mentored an intern in creating an automated A/B test analysis tool

Airbnb | May – September 2017

Software Engineer Intern | San Francisco, California

- Designed and ran pricing display experiments end-to-end to improve booking conversion
- Developed an email campaign to encourage hosts to update their pricing settings more frequently

Quora | August – December 2016

Software Engineer Intern | Mountain View, California

- Increased user follows from suggestions by 30% by improving the recommendations machine learning model
- Built an efficient system in C++ to run PageRank on arbitrary graphs and improved user relevance estimation by adding PageRank as a feature to the model

Apple | January – April 2016

Software Engineer Intern | Sunnyvale, California

- Developed features for a very high scale Netty-based internal proxy
- Improved reliability by building and integrating a library to circuit-break failures
- Designed and built a monitoring system to detect and warn about statistically abnormal servers

Coursera | January – May 2015

Software Engineer Intern | Mountain View, California

- Reduced home page load time by 50% by developing a service to render Javascript SPAs on the server
- Helped build a system that runs instructor-written grading software on programming assignments with Docker

Education

University of Waterloo

Bachelor of Computer Science, 2018
With Distinction, Dean's Honours List

Wilfrid Laurier University

Bachelor of Business Administration, 2018