Zeqi Cui

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Experience

Google, Software Engineer Sunnyvale, CA (Sep 2020 – Present)

- Responsible for systems critical to Google's Privacy and Data Protection.

Google, Software Engineering Intern Sunnyvale, CA (Sep 2019 – Dec 2019)

- Redesigned replication and load balancing services on a distributed data processing system that handles petabytes (daily) of user data within Google.
- New pipeline achieved 1.5x performance on 10x less memory.

Stride, Co-Founder Waterloo, ON (Oct 2016 – Sep 2019)

- At Stride, we leveraged computer vision and state of the art 3D human pose estimation models to collect accurate patient data in a cost-effective way in order to save time for rehabilitation specialists across the Toronto area.

Google, Software Engineering Intern Waterloo, ON (Sep 2018 - Dec 2018)

- Focused on improving performance and testing on the Gmail EngProd team.
- Sandboxed the Gmail stack for hermetic testing; developed metric processing and web tracing for Gmail latency and explored effects of replaying RPCs.

Microsoft, Software Engineering Intern Seattle, WA (Jan 2018 - Apr 2018)

- Delivered a high-performance Apache Spark to SQL Database connector on the Azure SQL Data Team, achieving 15x write speeds vs. the Spark default.
- Integrated sync agents in contained SQL databases for IOT Edge devices.

theScore, Software Developer Intern Toronto, ON (May 2017 – Aug 2017)

- Improved the sports GraphQL and REST API by exposing multiple game statuses for client-side development and cutting down on redundant queries.
- Optimized Elastic search engine by boosting highest league subscriptions.

Projects

MapBot, Computer Engineering Capstone Design Project, 2020

- A land drone used for quick 3D reconstructions in search and rescue missions.
- Video from the drone is streamed to compute servers and clients to construct a semi-dense point cloud map of the environment using SLAM.

NeuroGate, 1st place in Imagine Cup Canada, 4th in Finals, 2017

- Featured on TechCrunch, BetaKit and WaterlooChronicle.
- Developed using machine learning and Kinect to diagnose patients and track progression of neurodegenerative diseases from gait abnormalities.

Skills

Java, C++,
Python, Scala

Spark
Hadoop
Kafka
Docker
Elasticsearch
PyTorch
TensorFlow

Tools

Git, SVN
Jira, Asana

AWS, Azure
Google Cloud

Education

University of Waterloo
Computer Engineering
(BASc) - 2020

Relevant Courses

Algorithms & D.S.
Applied A.I.
Compilers
Computer Security

Computer Networks
Database Systems
Distributed Computing
OS & Systems
Performance Computing