

Employment

Uber, *Software Engineering Intern*

Aug – Dec 2016

- Joined UberEATS Search: we leverage data/analytics to help every eater effortlessly find what to order.
- Led the Search i18n effort, bringing localized search to our new booming international markets. Built a Spanish auto-complete prototype with help from city ops, Elasticsearch, data pipelines, and Python scripts.
- Revitalized the Search tab's top categories list with machine-learned ranking, boosting search rate by 30%.
- Implemented an intelligent manager of the exploration/exploitation tradeoff in auto-complete results.

Microsoft, *Software Engineering Intern*

Jan – Apr 2016

- Joined the Azure AD 'Gateway' team: a reverse-proxy in front of all AD identity services, e.g. Office 365.
- Shipped a complete health/functionality-monitoring solution with comprehensive metrics, runners, dashboards, alerts and logs for a critical new distributed web service—ensuring high availability/reliability.

Sharbud, *Software Developer*

Jan – Apr 2016

- Contracted to work with a "localized sharing of goods" startup in boutique consulting firm's Tech division.
- Integrated auth/capture payments from Stripe API. Create real-time user-to-user chat in ASP.NET and Entity.

Microsoft, *Program Manager Intern*

May – Aug 2015

- Spearheaded the investigation of regressions caused by kernel conflicts between Windows Updates and anti-virus/virtualization vendors. These bugs hurt millions of users, devastating Microsoft PR in the news/media.

Connected Lab, *Software Engineering Intern*

Aug – Dec 2014

- One of four interns who began on day one of a new hyper-growth IoT solutions startup; now 90+ employees.
- Launched the company's first client project (SNYPR.com): a sports-training app backed by Eric Schmidt's venture fund. Full-stack iOS: from simple CRUD, to interactive workouts, to infinite-paging leaderboards.
- Designed webpage prototype that won Union Station's grand reopening project (\$1M+) out of 50 other RFPs.

Epson, *Software Engineering Intern*

Jan – May 2014

- Joined a research team solving the extremely difficult problem of using 3D computer vision to classify deformable objects. Wrote an image-comparison tool reducing the evaluation time of test results by 3x.

Education

Software Engineering, *University of Waterloo*

Graduating April 2017

Data Structures/Algorithms, Networking, Concurrency, OS, Security, A.I. (Machine Learning, Neural Networks)

Activities and Projects

SAT Solver on GPUs, *Software Researcher and Developer*

Apr 2016 – Present

- 4th year project: collaboration with a PhD student/prof to accelerate SAT solver using parallelization on GPUs.

Startup Weekend Toronto, *Software Developer*

Nov 21–23, 2014

- Finished top 5 in an international startup hackathon sponsored by Google for Entrepreneurs and Amazon.
- Built an indoor traffic monitoring system in one weekend. Triangulated the 140+ smartphone RSSI's at the venue using Raspberry Pi scripts and displayed their locations on a D3.js floorplan heat map, hosted on AWS.

UW Chinese Christian Fellowship, *Chair*

2013 – 2016

- Led the committee to organize weekly gatherings, retreats, and special events for 130+ members.

Skills

Java, Golang, C++, C#, .NET, Python, JavaScript, jQuery, HTML/CSS, Git, Objective-C, SQL, Elasticsearch, Hive