

# Emmanuel Lee

## 4A Software Engineering

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## Employment

### Uber, *Software Engineering Intern*

Aug – Dec 2016

- Joined UberEATS Search: leveraging data/analytics to help every eater effortlessly find what to order.
- Revitalized Search home screen's top categories to a machine-learned list, boosting search rate 30%.
- Implemented My Go-to's carousel store ranking algorithms, increasing click-through-rate by 6%.
- Shipped intelligent manager of the exploration/exploitation tradeoff in search auto-complete results.

### Microsoft, *Software Engineering Intern*

Jan – Apr 2016

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

### Sharbud, *Software Developer*

Jan – Apr 2016

- Contracted with "localized sharing of goods" startup in boutique consulting company's Tech division.
- Created Stripe auth/capture payments API and real-time user chat in ASP.NET and Entity framework.

### Microsoft, *Program Manager Intern*

May – Aug 2015

- Spearheaded the investigation/mitigation of 3<sup>rd</sup>-party post-release regressions from Windows Updates that impacted 10's of millions of users, cost \$millions, and ruined Microsoft PR in the news/media.

### Connected Lab, *Software Engineering Intern*

Aug – Dec 2014

- One of the founding engineers of hyper-growth IoT solutions startup; now almost 100 employees.
- Launched their first client's project (<http://snypr.com>): a sports-training app backed by Eric Schmidt's venture fund. Full-stack iOS: from CRUD, to interactive workouts, to infinitely-paging leaderboards.
- Crafted webpage prototype that won Union Station's grand reopening (\$1M+) project out of 40+ RFPs.

### Epson, *Software Engineering Intern*

Jan – May 2014

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

## Education

### Software Engineering (BSE Candidate), *University of Waterloo*

Graduating April 2017

- Data Structures, Algorithm Design, Networks (TCP/IP), AI/Machine Learning, Concurrency, OS, Security

## Activities and Projects

### SAT Solver on GPUs, *Software Researcher and Developer*

Apr 2016 – Present

- 4<sup>th</sup> year project: collaborating with PhD student and prof to parallelize Boolean SAT solver using GPUs.

### Startup Weekend Toronto, *Software Developer*

Nov 21–23, 2014

- Ranked top 5 in international startup hackathon sponsored by Google for Entrepreneurs and Amazon.
- Built indoor traffic monitoring system in one weekend. Triangulated 140+ smartphone RSSI's 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 120+ members.

## Skills

Java, Go, C++, C#, .NET, JavaScript, jQuery, HTML/CSS, Git, Objective-C, UNIX/Linux, SQL