

# Emmanuel Lee

## 4A Software Engineering

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### Employment

#### **Uber**, *Software Engineering Intern*

**Aug – Dec 2016**

- Joined UberEATS Search: leveraging data and analytics to optimize search results for each customer.
- Running data experiments to rank/personalize the My Go-to's carousel. Launched a feature to selectively boost neglected search results to enable deeper exploration for machine learning models.

#### **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 a Stripe delayed-payments API and real-time user chat using 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 ruin 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++, C#, .NET, JavaScript, jQuery, HTML/CSS, Git, Objective-C, Python, UNIX/Linux, SQL