

# Emmanuel Lee

## 4A Software Engineering

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## Employment

### **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 to “localized sharing of goods” startup in boutique consulting company’s Tech division.
- Wrote 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 categories of 3<sup>rd</sup>-party post-rel regressions from Windows Updates that hurt 10’s of millions of users, cost \$millions, and ruin Microsoft PR in the news/media.

### **Connected Lab**, *Software Engineering Intern*

Aug – Dec 2014

- Started during inception of hyper-growth IoT solutions startup with amazing culture and mentors.
- 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 infinite-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.

### **InfoMax Technologies**, *Android Developer Intern*

May – Aug 2013

- Built next-gen prototype of a paperless upgrade to current forms and digi-pen data-capture product.

## Education

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

Graduating May 2017

- Data Structures/Algorithms, Networks (TCP/IP), Computer Architecture, Security, AI/Machine Learning

## Activities and Projects

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

Apr 2016 – Present

- 4<sup>th</sup> year project: collaborating with PhD student and prof to parallelize satisfiability 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*

2014 – Present

- Leading the committee to organize weekly gatherings, retreats, and special events for 120+ members.

### **Prayer Box**, *Android Developer and UI/UX Designer*

2013 – 2014

- Created our fellowship’s first mobile prayer request sharing app with a friend: had 60+ regular users.

## Skills

Java, C, C++, Python, C#, ASP.NET, Objective-C, JavaScript, jQuery, HTML/CSS, UNIX/Linux, SQL, MongoDB