Emmanuel Lee   4A Software Engineering

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Employment

Uber, *Software Engineering Intern*   **Aug – Dec 2016**

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 a "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 3rd-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, Algorithm Design, Networks (TCP/IP), Concurrency, OS, Security, AI/Machine Learning

Activities and Projects

SAT Solver on GPUs, *Software Researcher and Developer*   **Apr 2016 – Present**
- 4th 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, C, C++, Python, C#, Objective-C, JavaScript, jQuery, Angular, d3, HTML/CSS, UNIX/Linux, SQL