Emmanuel Lee

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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.
- Leading Search i18n effort, bringing localized search to our new booming international markets. Built Spanish auto-completion prototype using ElasticSearch, Python scripts, and data pipelines.
- Revitalized Search tab's top categories with machine-learned ranking, boosting search rate by 30%.
- Implemented intelligent manager of 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**
- Contract work with a "localized sharing of goods" startup in boutique consulting firm's Tech division.
- Created Stripe two-step auth/capture payments API and a real-time user chat in ASP.NET and Entity.

Microsoft, *Program Manager Intern* **May – Aug 2015**
- Spearheaded the investigation/mitigation of 3rd-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 engineering interns of hyper-growth IoT solutions startup; now 90+ 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.
- Designed webpage prototype that won Union Station's grand reopening ($1M+) project out of 50 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 evaluation time of test results by 3x.

Education

Software Engineering, *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**
- 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**
- Finished 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, Python, JavaScript, jQuery, HTML/CSS, Git, Objective-C, SQL, ElasticSearch, Hive