Emmanuel Lee

⌨ emmanuellee.com
✉ eman.j.lee@gmail.com
☎ (519) 590-8654

Employment

Uber, *Software Engineering Intern* **Aug–Dec 2016**
- Joined UberEATS Search: leveraging data/analytics to help every eater effortlessly find what to order.
- Led the Search i18n effort, bringing localized search to our new booming international markets. Built a Spanish auto-complete prototype alongside city ops, using ElasticSearch, data pipelines and Python scripts.
- Revitalized the Search tab's top categories list with machine-learned ranking, boosting search rate by 30%.
- Implemented an intelligent manager of the exploration/exploitation tradeoff in auto-complete results.

Microsoft, *Software Engineering Intern* **Jan–Apr 2016**
- Joined the Azure AD 'Gateway' team: a reverse-proxy in front of all AD cloud identity services, e.g. Office 365.
- Shipped a complete health/functionality-monitoring solution with comprehensive metrics, runners, dashboards, alerts and logs for a critical new distributed web service—ensuring high availability/reliability.

Sharbud, *Software Developer* **Jan–Apr 2016**
- Contracted to work with a "localized sharing of goods" startup in boutique consulting firm's Tech division.
- Integrated auth/capture payment-processing from Stripe. Created real-time user chat in ASP.NET and Entity.

Microsoft, *Program Manager Intern* **May–Aug 2015**
- Spearheaded the investigation of regressions caused by kernel conflicts between Windows Updates and anti-virus/virtualization vendors. These bugs hurt millions of users, devastating Microsoft PR in the news/media.

Connected Lab, *Software Engineering Intern* **Aug–Dec 2014**
- One of four interns who began on day one of a new hyper-growth IoT solutions startup; now 90+ employees.
- Launched the company's first client project (SNYPR.com): a sports-training app backed by Eric Schmidt's venture fund. Full-stack iOS: from simple CRUD, to interactive workouts, to infinite-paging leaderboards.
- Designed webpage prototype that won Union Station's grand reopening project ($1M+) out of 50 other 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 the evaluation time of test results by 3x.

Education

Software Engineering, *University of Waterloo* **Graduating April 2017**
  Machine Learning, Neural Networks, Big Data Processing, Computational/Artificial Intelligence, Fuzzy Logic

Activities and Projects

SAT-Solver on GPUs (4th-year project), *Software Researcher and Developer* **Apr 2016–Present**
- Collaborating with PhD student/professor to accelerate SAT-solvers using massive parallelization and GPUs.

Startup Weekend Toronto, *Software Developer* **Nov 21–23, 2014**
- Finished top 5 in an international startup hackathon sponsored by Google for Entrepreneurs and Amazon.
- Built an indoor traffic monitoring system in one weekend. Triangulated the 140+ smartphone RSSI's at the venue using Raspberry Pi scripts and displayed their locations on a D3.js floorplan heat map, hosted on AWS.

Skills

Languages: Java, Go, C/C++, Python, Scala, SQL, JavaScript, HTML, CSS, C#, .NET, Objective-C
Technologies: Hadoop (Spark, Hive), ElasticSearch, git/GitHub, svn, iOS, Android, Angular, Ember