

# Emmanuel Lee

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## Employment

**Uber**, *Software Engineer*

**Jun 2017–Present**

- Full-stack feature work and observability engineering contributing to the public launch of Uber Movement, a new initiative for meaningfully sharing and visualizing Uber’s data to help urban planning around the world.

**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 rates 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.

**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**

- Launched Connected Lab’s first client project ([SNYPR.com](http://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.

**Epson**, *Software Engineering Intern*

**Jan–May 2014**

- Joined a research team using 3D computer vision for classification of deformable objects.

## Education

**Bachelor of Software Engineering**, *University of Waterloo*

**2012–2017**

Machine Learning, Neural Networks, Big Data Processing, Computational/Artificial Intelligence, Fuzzy Logic

## Activities and Projects

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

**2016–2017**

- Collaborated with PhD student/professor to accelerate SAT-solvers using massive parallelization on GPUs.
- Won the GM Canada Innovation Award, that “recognizes student teams who excelled in their 4<sup>th</sup> year design projects through collaborative learning, innovative concept development and commercial application.”

**Improving Human-AI Interaction**, *Software Developer*

**Jan–Apr 2017**

- Our team was chosen to pilot a new partnership between Amazon and UWaterloo (campus news link [here](#)) dedicated to developing new applications that combine artificial intelligence with Alexa voice-computing.
- We built a home lighting solution able to understand natural phrases such as “It is too bright in the living room!”, using fuzzy logic to infer the exact electrical current/voltage values that the lightbulbs should emit.

## Skills

**Languages:** Python, C++, Scala, Java, Go, SQL, JavaScript, HTML, CSS, C#, .NET, Objective-C

**Technologies:** Hadoop (Spark, Hive), Cassandra, Elasticsearch, git, svn, iOS, Android, Node