Emmanuel Lee

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Employment

Uber, *Software Engineer*   **Jun 2017–Present**

Uber Movement
- 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.

Scheduled Rides
- Collaboration to extend Scheduled Rides for Uber Health, unblocking their well-received public launch.
- Integrated Scheduled Rides into our internal trip simulation tool for end-to-end testing/debugging.
- Implemented a lambda service to ingest Kafka streams and emit trip health metrics for alerts/dashboards.

Uber, *Software Engineering Intern*   **Aug–Dec 2016**
- Joined UberEATS Search team: leveraging data analytics to help every eater effortlessly find what to order.
- Revitalized the Search tab's Top Categories list with machine-learned ranking, boosting CTR by 30%.
- Pioneered and led the i18n effort to bring localized search to our new booming international markets.

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 metrics, test runners, dashboards, alerts and logs for a new critical distributed web service.

Microsoft, *Program Manager Intern*   **May–Aug 2015**
- Spearheaded the investigation of regressions caused by kernel conflicts between Windows Updates and anti-virus/virtualization apps. 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): 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 4th 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.
- Built a home lighting solution that understood natural phrases, using fuzzy logic to infer lightbulb voltages.

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, React/Redux, Kafka