# Eric Mai

Revolutionizing transportation through technology for 14 years

(405) 503-1379
eric.c.mai@gmail.com

## EXPERIENCE

### Lacuna — *Senior Staff Software Engineer*

August 2019 - July 2023

- Tech lead for multiple high-impact initiatives, including curb management, taxi management, and scooter auditing.
- Architected migration from single to multi-tenant backend, maintained 4 9's of availability, drove significant reductions in response times, established on-call best practices.
- Shaped emerging curb data standards through technical leadership on the Open Mobility Foundation Curb Working Group Steering Committee. Liaised between Lacuna and the OMF.

### Self-employed — *Consultant*

August 2018 - August 2019

- Evaluated marketplace product changes (e.g., dynamic pricing, rider/driver promotions) for a leading rideshare provider.
- Architected a software system for travel time prediction.

### Uber — *Senior Engineer*

March 2014 - August 2018

- Tech lead for dynamic pricing (2014-2016) and driver positioning (2016-2017). Led engineering work required to scale pricing and positioning information from cities to blocks (as hexagons), and from 150k to 3M drivers.
- Product manager for marketplace data (2018). Consolidated marketplace-related analysis around a canonical set of metrics, enhancing company-wide understanding of profitability and driver earnings.

### Automatic — *Lead iOS Engineer, Founding Member*

December 2012 - March 2014

- Led native iOS app from prototype through successful 1.0 release.
- Integrated the iOS app with a custom BLE hardware device.

### Iteris — *Transportation Engineer*

December 2010 - December 2012

- Contributed to federal research on travel time reliability; published 3 research papers on transportation operations. Invited speaker on mobile devices in transportation.
- Designed and developed innovative real-time systems for routing, fleet management, roadway performance monitoring, and roadway operations and control.

## SKILLS

TypeScript, JavaScript, Python, Swift, Objective-C, React, Node.js, GraphQL, SQL, PostgreSQL, Redis, MongoDB, Kubernetes, Helm, Docker, AWS, Git, Jenkins, Jira

## ACCOMPLISHMENTS

Published 18 research papers on transportation systems and artificial intelligence.

Awarded 3 patents on transportation performance monitoring and passenger information systems.

Four-time invited program reviewer for $400M of federal research funds via US DoE.

## EDUCATION

### UC Berkeley
*M.S - Civil Systems Engineering*

May 2009

Focus on Intelligent Transportation Systems and Behavioral Economics. Built iPhone app BayTripper, the first app to provide transit routing based on real-time data. Helped build Cabulous (now Flywheel), a taxi mapping, dispatch, and hailing system. GPA: 3.72.

### University of Oklahoma
*B.S - Civil Engineering*

May 2007

Graduated Summa Cum Laude with minors in Mathematics and Religious Studies. Led 15 undergraduate and graduate students across 7 research projects. GPA: 3.95.