

Eric Mai

Engineering high performance geospatial data systems for 15 years

EXPERIENCE

PortPro — Staff Engineer, Lead Architect

April 2024 - Present

- Integrating LLMs into drayage operations workflows, resulting in significant efficiency gains.
- Driving adoption of engineering excellence standards across teams.

Cruise — Senior Software Engineer II

October 2023 - February 2024

- Scaling the rider experience to support commercialization.

Lacuna — Senior Staff Software Engineer

August 2019 - July 2023

- Full stack 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, mentored 5 junior engineers, established code review processes.
- Shaped emerging curb data standards through technical leadership on the Open Mobility Foundation Curb Working Group Steering Committee. Liaised between Lacuna and the OMF.

Startups — Transportation & Marketplace 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. Led teams of 5-10 engineers.
- Product manager for marketplace data (2018). Consolidated marketplace-related analysis around a canonical set of metrics, enhancing company-wide understanding of profitability.

Automatic — Lead iOS Engineer, Founding Member

December 2012 - March 2014

- Launched native iOS BLE app for OBD-II; grew team from 1 to 8.

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SKILLS

Python, TypeScript, JavaScript, Go, Swift, React, Node.js, PostgreSQL, MongoDB, Redis, Kafka, Kubernetes, Docker, AWS, GraphQL, Distributed Systems, LLM Integration, API Design, Technical Leadership

ACCOMPLISHMENTS

Published 18 research papers on transportation systems and artificial intelligence.

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

Five-time invited technical reviewer for \$500M of federal research funds via US DoE's advanced research projects in transportation program.

EDUCATION

UC Berkeley

M.S - Civil Systems Engineering

May 2009

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

University of Oklahoma

B.S - Civil Engineering

May 2007

Graduated Summa Cum Laude. Minors in Mathematics and Religious Studies. Leader of a 15 student research team. GPA: 3.95.