

Kerrick Staley

Email k@kerrickstaley.com
Phone +1 (415) 340 2247

Address 680 Indiana St., Apt. 306
San Francisco, CA 94107

Summary

Talented and motivated machine learning engineer, with comprehensive skillset for designing, implementing, and deploying ML and statistical models, from concept to production system. Leader who coordinates team-scale projects and enables others to do their best work. Strong communicator with attention to detail.

Experience

Apr 2019 – Present Lyft
Research Scientist

Create and productionize next-generation algorithm for realtime driver localization, using marginalized particle filter to combine data from multiple cell phone sensors. Create and productionize faster HMM-based C++ algorithm for offline driver localization.

Nov 2015 – Apr 2019 Lyft
Software Engineer

Re-architected monolithic service and built one of Lyft's first microservices (now 3rd largest, 250,000+ peak QPS). Led team of 2 other engineers and developed algorithms to serve geo-spatial queries. Led work on embedded software and integration for autonomous car's custom camera.

Jan 2013 – Oct 2015 Google
Software Engineer / Site Reliability Engineer

Kept a system serving 100,000s of QPS and storing 100s of PiB running. Built tools to monitor performance and analyze problems, and re-architected server code to improve performance and reliability. Debugged and resolved outages spanning 5+ server binaries. Advised other teams on building reliable, scalable services.

May 2012 – Aug 2012 IBM
Software Engineering Intern, Extreme Blue

Education

2010 – 2012 Iowa State University
B.S. Computer Engineering, minor in Mathematics (3.82 GPA)

Contributed to research in the Developmental Robotics Laboratory. Completed graduate-level machine learning and mathematics classes. Completed five semesters of Chinese language.

Accomplishments

- Authored an enhancement proposal (which is now in effect) for the Python language, edited it according to community feedback, and engaged in community discussion.
- Co-authored a paper in Elsevier's Robotics and Autonomous Systems journal on categorizing objects using sensory feedback from robotic manipulation.
- Qualified (with a team of 2 other students) for the ACM International Collegiate Programming Contest, one of only 116 teams worldwide.