Kerrick Staley

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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

Oct 2021 – present Jane Street
Software Engineer

Create models in PyTorch and OCaml for estimating stock option fair prices. Build Python app infrastructure and deployment systems.

Apr 2019 – Sep 2021 Lyft
Research Scientist

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

Nov 2015 – Apr 2019 Lyft
Software Engineer

Built Lyft's 3rd largest microservice (250k+ peak QPS). Led team of 3 engineers, developing algorithms to serve geospatial queries. Led embedded software work for autonomous car camera.

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

Kept a system serving 100k's of QPS and storing 100's of PiB running. Built tools to monitor performance, and re-architected server code to improve performance and reliability. 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)

Completed graduate ML and math classes, and 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.
- Qualified for the ACM International Collegiate Programming Contest, one of only 350 students worldwide.