Kerrick Staley

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Objective

A software engineering position in a nimble organization where an ability to architect, implement, deploy, and understand complex and nuanced systems is required.

Summary

Talented and motivated software engineer specializing in site reliability engineering. Skilled at using mathematical techniques to understand and debug large-scale production systems. Adept at server-side programming while also capable on web and mobile clients. Strong communicator and collaborator with attention to detail.

Experience

Jan 2013 – Present Google
Software Engineer / Site Reliability Engineer

Keep a system serving 100,000s of QPS and storing 100s of PiB running. Build tools to monitor performance and analyze problems, and re-architect server code to improve performance and reliability. Debug and resolve outages spanning 5+ server binaries. Consult other teams on building reliable, scalable services.

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

Created a mobile web app allowing non-technical professionals to assemble workflow-specific apps using a GUI. Worked with a team of interns to build both a working product and a business case for it. Authored the majority of a 2-minute pitch that was delivered to a senior vice president and other executives.

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.