Sean Shahkarami

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Website. seanshahkarami.github.io

Skills

Development. Python, Go, Shell, SQL, Docker, Linux, C, C++, Javascript

Machine Learning. PyTorch, Scikit-learn, Pandas, Numpy, Scipy

Experience

Software Developer for Waggle, Sage and Array of Things

Argonne National Lab, January 2016 - Present

- Provided sensor data directly to end users by leading development of our data pipeline. Built to be highly efficient and serves over 300GBs nightly.
- Enabled users to build edge applications by leading development of our platform SDKs and containerized development environment.
- Ensured 100s of systems left the factory working by leading development of our interactive QA process used by assembly line technicians.
- Kept our fleet of remote devices alive by leading firmware development for our embedded power and system management board and incorporating robustness features in our OS.
- Dramatically improved team's efficiency by independently creating Docker based build system for our Linux distro. Cut build times by a factor of 4 and eliminated need for special hardware.

Education

Ph.D in Mathematics (Incomplete)

University of Illinois at Urbana-Champaign, 2011-2016

M.S. in Mathematics

University of Illinois at Urbana-Champaign, 2011-2013

B.A. in Mathematics and Minor in Computer Science

University of Illinois at Urbana-Champaign, 2007-2011