Sean Shahkarami

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Skills

Development. Python, Go, C, Bash, SQL, Javascript, Docker, Kubernetes, Linux

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

Experience

Software Developer for Waggle, Array of Things and Sage

Argonne National Lab, January 2016 - Present

- Provided sensor data to end users by leading development of efficient data pipeline. Processed over 300GBs nightly.

- Enabled users to build edge applications by leading development of our platform SDKs and tooling.

- Created device application stack on top of Kubernetes.

- Ensured hundreds of devices worked correctly by leading development and training of QA process.

- Kept our remote devices alive by leading firmware development of our power and system management board and incorporating robustness features into our OS.

- Dramatically improved workflow by developing Docker based build system for our Linux distro. Cut build times by a factor of 4 and eliminated need for special hardware.

- Regularly meet with and provide guidance to AI / machine learning team.

- Engage with users through code sessions and platform tutorials.

Education

Ph.D in Mathematics

University of Illinois at Urbana-Champaign, Pursued 2011-2016

M.S. in Mathematics

University of Illinois at Urbana-Champaign, Completed 2011-2013

B.A. in Mathematics and Minor in Computer Science

University of Illinois at Urbana-Champaign, Completed 2007-2011