Max Pietsch

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WORK HISTORY

Software Development Engineer - Amazon

09/2019 - 02/2021

Worked on the CloudWatch Agents team on metric aggregation and the Key for Business team on remote building access.

- Added new APIs and fixed bugs in two Java metric aggregation libraries, effectively owning them for my team.
- Redesigned the metric aggregation algorithm to better scale for high concurrency use cases.
- Built canary tests, designed a dashboard, and set up alarms and metrics for a product used by all internal teams.
- Designed and built a new web service on AWS to unlock doors remotely.

Software Developer - General Motors

04/2017 - 08/2019

Developed a desktop application for vehicle technicians to diagnose and repair vehicles using Java 8, JavaFX, and Maven.

- Designed multi-threaded approach to improve download throughput by 300% vs. using a single thread.
- Automated our installer build using Python.
- Helped design the event based architecture which drove the application.

INTERNSHIPS

SRI International

Hardened a CentOS Linux cluster.

USF Department of CSE, Dr. Tu's Lab

Created an online visualization of molecular simulation data and a web form for users to parameterize the visualization using Javascript, HTML/CSS and PHP.

USF College of Pharmacy, Dr. Cheng's Lab

Created a web page and database to display pharmaceutical data using MySQL and PHP.

VOLUNTEERING

Taught AP Computer Science 1-2 days a week for a year to high school students.
Wrote Python and Bash on a HPC cluster for a bioinformatics lab. Source code is at http://bit.ly/2cbCr1d

EDUCATION

University of South Florida — *BS Computer Science (2016)*