

Jared J. Stewart

SOFTWARE ENGINEER

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Experience

AWS Elemental

Portland, OR

SOFTWARE DEVELOPMENT ENGINEER II, AWS MEDIAPACKAGE

Nov. 2017 - Present

- Designed and implemented per-user throttling in the nginx caching layer.
- Deployed AWS MediaPackage into the CDG and FRA regions.
- Refactored Java metering code, eliminating on-call pages had that occurred every week.

Pivotal Software

Portland, OR

SENIOR SOFTWARE ENGINEER, DATA R&D

Sep. 2016 - Nov. 2017

- Committer and PMC member for Apache Geode, an open-source distributed in-memory data grid.
- Developed a new classloader to allow for faster deployments and for user-deployed jar files with optional dependencies.
- Created a JUnit rule for testing the fully-assembled distribution that eliminates the need for manual testing before a release.
- Implemented new CLI commands and refactored the existing legacy code to make the system cleaner and easier to maintain.
- Discovered a vulnerability within concurrent query execution that revealed data to unauthorized users (CVE-2017-9794).

CARFAX

Columbia, MO

SOFTWARE ENGINEER, BANKING AND INSURANCE GROUP

Dec. 2013 - Aug. 2016

- Implemented new features for carfaxbig.com, including a user-management system and a system to notify users when new data is added to a Vehicle History Report.
- Developed a new billing system using RabbitMQ that increased the throughput over the old system by an order of magnitude.
- Built a novel algorithm to suggestion corrections for typographical errors in Vehicle Identification Numbers.
- Maintained and developed REST APIs to deliver vehicle history information to banks and insurance companies.

University of Iowa, Energy Control Center

Iowa City, IA

PROJECT ASSISTANT/DEVELOPER

Jun. 2011 - Aug. 2012

- Developed software that used Fourier Analysis to detect malfunctioning valves in building HVAC systems.
- Implemented real-time energy usage dashboards, utilizing over 100,000 data collection points across campus to track and forecast steam, electricity, and chilled water usage.

University of Iowa, Center for Research by Undergraduates

Iowa City, IA

UNDERGRADUATE RESEARCH ASSISTANT

Aug. 2008 - May. 2009

- Built data visualizations to analyze proton-antiproton collisions from the Collider Detector at Fermilab using the ROOT C++ particle physics framework.

Education

University of Missouri

Columbia, MO

M.A. IN MATHEMATICS. GPA: 3.79/4.00, GRE: 170 VERBAL, 169 QUANTITATIVE.

Aug. 2012 - May 2016

- Passed PhD qualifying exams in Algebra and Analysis.

University of Iowa

Iowa City, IA

B.S. IN MATHEMATICS, B.A. IN PHYSICS, MAY 2012. GPA: 3.40/4.00, ACT: 35 COMPOSITE.

Aug. 2008 - May 2012

- National Merit Scholarship, Old Gold Scholarship, Honors Commendation.

Technical Skills

Languages Proficient: Java, Groovy, SQL. Prior Experience: Python, C++, Javascript, HTML, CSS

Frameworks Grails, Spring Framework, JQuery, Bootstrap, React

Software Git, Gradle, RabbitMQ, MySQL, Oracle Database, Nginx

Testing JUnit, Spock, Selenium, Geb, Awaitility, Mockito