

Jessica Claire

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SUMMARY

Dynamic professional with over 3 years of experience in Python development, adept at utilizing network monitoring and application monitoring tools such as AppDynamics, ExtraHop, AppNeta, Gigamon, Accedian, and Site24&7. Specialized in designing and developing web applications using Python frameworks like Django and Flask with MySQL database integration. Proficient in React, Angular4, chart.js, Node.js, and NoSQL databases, with hands-on experience in building Single Page Applications (SPA) using HTML5, CSS3, JavaScript, and Bootstrap. Skilled in writing efficient code and optimizing performance, leveraging AI tools like ChatGPT to enhance workflow. Well-versed in Agile, Scrum, and Waterfall methodologies in software development, with a strong background in the healthcare industry.

SKILLS

- Programming Languages: Python Expert, Java, Go, Swift, M, SQL, Java script, Type script, C#, HTML, CSS, and Shell
- Databases: MySQL, SQLite, MongoDB, Prometheus, Cassandra, Redis, AWS DynamoDB and Influx DB
- Frameworks: Django, Flask, Angular, AngularJS, React, jQuery and Chart.js
- Monitoring Tools: AppDynamics, ExtraHop, AppNeta, Gigamon, Site24&7, ServiceNow, Splunk, Accedian, Grafana, CloudWatch and AWS Athena
- Techniques & Tools: PyCharm, Atom, Visual Studio Code, Hadoop, Docker, MYSQL Workbench, Transmit, VirtualBox, Postman, Remote Desktop
- Source and Version Control: Git, Github, SVN

EXPERIENCE

RESEARCH AND DEVELOPMENT ENGINEER

12/2021 to CURRENT

University Of California | Santa Cruz, CA

- Designed and developed an innovative billing framework for automated charge drops in device-based monitoring, streamlining the process and ensuring accuracy.
- Implemented robust billing validation functions within the existing workflow, resulting in more accurate and reliable charges.
- Collaborated within a bug-fixing team to address and resolve issues across the entire application.
- Effectively fixed bugs in released versions through targeted updates.
- Enhanced performance by modifying Oracle and MySQL queries.
- Proactively identified and communicated potential risks and obstacles to ensure successful project execution.
- Conducted research on alternative solutions to problem areas, leading to informed decisions on the most effective technical approaches.
- Actively participated in code review meetings, providing valuable input on bugs, inefficiencies, and proposing solutions for emerging issues.
- Possess experience working with health services applications such as MyChart and Hyperspace.

SOFTWARE PERFORMANCE ENGINEER, PYTHON DEVELOPER, TEAM LEAD

08/2019 to 11/2021

Wipro Technologies (Client Of Apple)

- Developed a full-stack Python application using Django and MySQL DB, with JavaScript, jQuery, Ajax, HTML5, and CSS for the frontend.
- Created a full-stack web application using Django, MySQL DB, and Angular4 with chart.js for the user interface.
- Implemented single sign-on functionality using DAW, SAML, and LDAP for multiple applications.
- Automated the setup of crontab and executed network troubleshooting commands (nc, traceroute, ping, nslookup) from source devices via a shell script, sending results to a target endpoint for efficient network issue resolution.
- Developed and maintained web crawler scripts using Python (Selenium) and Mac Automator for dashboard display purposes.
- Installed and configured Apache servers and implemented load testing scripts (shell and Python) to assess the performance of Apache load balancer.
- Implemented Grafana backend plugins using Golang and Node.js, fetching data from various applications' APIs (e.g., AppDynamics, ServiceNow), analyzing it, and presenting it in a readable format on Grafana dashboards.
- Set up and maintained different monitoring tools such as AppDynamics (onboarding, dashboard configuration, alerts, troubleshooting), ExtraHop (JavaScript-based trigger code, dashboard customization, system configuration), AppNeta (network and web path monitoring, alerting, system configuration), Gigamon (port mapping, system configuration, troubleshooting), and Site24&7 (device monitoring).
- Developed and maintained Python scripts that pulled data from Splunk and the AppNeta API, utilizing caching to reduce calls to the AppNeta endpoint. Leveraged ExtraHop trigger code (JavaScript) to analyze and display data on dashboards and write it into Influx DB.
- Implemented an audit logs script that collected logs from various tools and systems, analyzed them, and wrote the results into a MySQL DB.
- Deployed applications and automated scripts to different servers using Ansible.
- Created a backup script (Python) and maintained its replication on GitHub.
- Demonstrated hands-on experience with AWS services such as EC2, S3, CloudWatch, and Athena. Additionally, proficient in Node exporter and Prometheus, utilizing Grafana dashboards, and worked on a Swift project for network monitoring.

PERFORMANCE MONITORING ENGINEER, PYTHON DEVELOPER

07/2018 to 08/2019

Submitworks (Client Of Apple)

- Same position as above

EDUCATION AND TRAINING

MS | Computer Science

09/2017

New York Institute of Technology, Old Westbury, NY

GPA: 3.86/4.0

BSC Information Management and Information System

06/2013

Dalian Neusoft University of Information, DaLian