Andrew Zhang

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EXPERIENCE

Masimo Corporation   *Irvine, CA*
Software Engineer II, Automation   October 2022 - Present

- Created a robust and scalable Rest API interface using Python's FastAPI framework to interact with and automate testing for medical instruments.
- Developed and maintained a Dockerized API proxy using Java Spring Boot for Rest API testing within the Stork mobile applications.
- Designed and developed a scalable proxy router using Java Spring Boot to expose an API layer and leveraged PostgreSQL for efficient session and node management.
- Owned testing of the Masimo Stork baby monitor from development to market launch, using Java 21 and Appium for automated testing.
- Maintained and optimized multiple Java-based simulators using a layered architecture and MQTT protocol to replicate components of the Stork ecosystem.
- Implemented and monitored CI/CD pipelines using Jenkins for automation testing, artifact creation, and app deployments.
- Used Jenkins pipelines to build and deploy multiple Docker images and project artifacts to Nexus for versioned artifact management.
- Managed version control and collaborative development workflows using Bitbucket, Jira, and Confluence.
- Automated medical instrument testing using Pytest, improving test coverage and taking over manual test procedures.

Yale New Haven Health   *New Haven, CT*
Clinical Integration Applications Intern   June 2021 - August 2021

- Developed and deployed a simple interactive chatbot in JavaScript that assisted with searching for employee resources.
- Used JavaScript and SharePoint Online to revamp and modernize an existing front facing telecommuting website which streamlined and organized telecommuting resources.

Rochester Institute of Technology ITS   *Rochester, NY*
Service Desk Representative   March 2020 - December 2021

- Displayed excellent communications by assisting customers with technical problems and explaining concepts in a layman's manner.
- Demonstrated strong problem solving skills by solving technical issues.

EDUCATION

Rochester Institute of Technology   *Rochester, NY*
Bachelor of Science - Computer Science   August 2017 - December 2021

PROJECTS

Quizlet Clone

- Developed a Quizlet-like application with a React.js frontend and a Flask backend.
- Utilized a PostgreSQL database for efficient data storage and retrieval.
- Deployed the application on Vercel, ensuring high availability and scalability.
- Implemented features such as user authentication, flashcard creation, mock tests, and study modes.

WebCheckers

- Created a web interface Checkers game in a team environment using Java, Spark, and Maven.
- Utilized Spark framework as an HTTP server to serve RESTful requests to frontend clients.
- Performed unit testing using JUnit to ensure the functionality of individual components.

SKILLS

- **Programming Languages**: Python, Java, JavaScript, SQL, C, MIPS Assembly, CSS
- **Frameworks**: Spring Boot, FastAPI, Scikit-learn, PyTorch, Flask, ReactJS, PyQT, Selenium, Appium, Pytest
- **Languages**: English, Mandarin Chinese (Fluent)
- **Tools**: Git, Github, Docker, Jenkins, Maven, Atlassian Suite (Jira, Confluence, Bitbucket), AWS