Joel Whitney

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SUMMARY

Experienced software engineer specializing in mobile and web application development with a focus in automation. Accomplished leader in the development of test automation frameworks for various platforms and products in complex software stacks. Passionate about automation, learning new technologies, and problem-solving.

EXPERIENCE

Lead SDET

Kandji   **February 2023 - February 2024, Remote**

- Led test automation frameworks for testing MDM solution on Apple devices (Python, Appium) and supporting Web applications (Cypress, TypeScript)
- Maintained and extended supporting reporting services (Allure, Streamlit, ArgoCD, PostgreSQL databases)
- Developed REST APIs (FastAPI, ArgoCD) for Anka VM administration
- Developed internal Appium plugin for device enrollment and management (Node.js, TypeScript)
- Mentored, trained, and managed test automation team remotely
- Conducted technical interviews for SDET roles
- Integrated automation into development process for continuous delivery

Senior SDET

Kandji   **May 2022 - February 2023, Remote**

- Developed automated testing framework for physical Apple devices (Python, Appium, Codefresh)
- Implemented supporting reporting services (Allure, Streamlit, ArgoCD, PostgreSQL databases)
- Developed internal Python client library for REST API to support automated data creation
- Contributed to open-source projects (Appium, Appium Device Farm)
- Introduced automated test frameworks in software development lifecycle

Automation Lead (Principal Product Engineer)

Esri   **September 2020 - May 2022, Portland, ME**

- Led test automation frameworks for testing GIS applications (Python, Appium, Pytest) and supporting Web applications (Selenium)
- Developed testing infrastructure with Jenkins, Docker Swarm, Selenium Grid, reporting services (Allure, NginX, Next.js, Streamlit), and other supporting infrastructure (FastAPI, CrateDB, Vault, MinIO)
- Mentored, trained, and managed test automation team remotely
- Conducted technical interviews for Product Engineering and SDET roles
- Integrated automation into development process for continuous delivery

Senior Product Engineer

Esri   **May 2016 - September 2020, Portland, ME**

- Maintained and extended existing automated testing frameworks (Appium, Ruby, Jenkins)
- Contributed in many software development roles, including quality assurance engineer, mentor, product management, project management
- Presented technical workshops for internal and external audiences
- Developed tools and apps for improving development process (Python, macOS, iOS)
- Developed suite of apps for debugging ArcGIS Runtime SDK (Swift, Kotlin, C#) on iOS, Android, and .NET
- Contributed to ArcGIS API for Python and automated customer workflows

TRAININGS

Advanced Python

Android Essentials with Java
Big Nerd Ranch

iOS Essentials with Swift
Big Nerd Ranch

macOS for IT Administrators
LinkedIn

Learn How to Deploy and Manage Apple Devices
Apple

Managing and Leading Developers
LinkedIn

SKILLS

Programming
Python, Swift, TypeScript, JavaScript, Java, Ruby, Shell, Git

Software Development
iOS, macOS, Android, Web, UWP

Quality Engineering
Appium, Selenium, Cypress, Pytest, Cucumber

Quality Assurance
Networking, JIRA, Testrail, Virtualization (Anka Cloud, Anka Develop)

GIS
ArcGIS Field Apps, ArcGIS Online / Enterprise, ArcGIS Runtimes, ArcGIS Pro, ArcMap

MDM
Kandji, Workspace ONE, MobileIron, Intone, Blackberry UEM

DevOps
Codefresh, Jenkins, Docker, ArgoCD, GitHub Actions, AWS (EC2, S3, Certificate Manager)

EDUCATION

M.S. Spatial Information Science & Engineering
University of Maine • 2016

B.S. Environmental Horticulture
University of Maine • 2012