Avery Jacobson

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Seeking an opportunity as a Full Stack Developer or Software Development Engineer in Test.

Professional Summary

Accomplished Full Stack Developer and SDET with over 10 years of experience designing, developing, and delivering scalable, high-quality software solutions and automation frameworks. Proficient in full-stack development with expertise in Node.js, Express, and React for building robust APIs and dynamic web applications. Skilled in modern programming languages, including C, C++, C#, Java, Python, JavaScript, and TypeScript, with a strong understanding of RESTful and GraphQL APIs. Extensive experience working with SQL/NoSQL databases and building CI/CD pipelines to streamline deployments. Adept in Test-Driven Development (TDD) and Behavior-Driven Development (BDD), leveraging tools like Jest, Cypress, Selenium, and Cucumber to optimize quality and efficiency. Expertise in cloud technologies (AWS, Azure) and Agile methodologies, collaborating with cross-functional teams to deliver innovative software.

Education

Professional Developer's Certificate
University of Minnesota, Minneapolis, MN
12/2024

Associates of Applied Science in Foundations of Engineering
Associates of Applied Science in Computer Science
Normandale College – Bloomington, MN
- Tutored Math, Physics, Computer Science
- Math club president
- SQL Certification

Associate of Computer Software Technology
ITT Technical Institute, Eden Prairie, MN

Core Competencies

- **Languages**: C, C++, C#, Java, Python, JavaScript, Node.js, React, Typescript, Visual Basic .NET, LISP, Assembly Language, OpenGL(libraries), HTML, CSS, VBScript

- **Database Technologies**: SQL, Oracle, MySQL, PostgreSQL, MongoDB, NoSQL

- **Testing & Automation**: Selenium, Cucumber, Appium, TestComplete, Maven, TestNG

- **CI/CD & DevOps**: Jenkins, Bamboo, Docker, Jest, Cypress, Git Actions, CircleCI

- **Tools & Platforms**: JIRA, GitHub, GraphQL, RESTful APIs, ASP.NET, Express

- **Methodologies**: Agile, SDLC, BDD, TDD

- **Cloud Technologies**: Azur, AWS

Senior Software Engineer
Wells Fargo, Minneapolis, MN
August 2021 – April 2024
- Spearheaded the transition from 20% to 100% automated test coverage for Wells Fargo's brokerage platform using Java, Selenium, and BDD (Cucumber).
- Developed and executed comprehensive integration and regression test scripts, ensuring thorough validation of system functionality.
- Built and optimized CI/CD pipelines with Jenkins and Maven, reducing manual testing time by 80%.
- Collaborated with cross-functional teams to identify and resolve defects, enhancing application stability and reliability.

Software Test Engineer
Wells Fargo, Minneapolis, MN
March 2020 – August 2021

- Led the transformation from 0% to 100% test automation by identifying and setting up tools, frameworks, and automation scripts within the existing infrastructure.
- Created BDD automation scripts in Java and Selenium for the CORE mortgage tool, significantly improving test efficiency and coverage.
- Conducted end-to-end testing with CI/CD pipelines to ensure accurate loan processing and seamless integration of new features.
- Executed and managed test cases using Application Lifecycle Management tools, identifying and resolving critical product pricing bugs.

Senior Software Technician
Stratasys, Eden Prairie, MN
September 2017 – December 2019
- Led the setup and integration of TestRail and JIRA for test case and automation management.
- Automated test cases for industrial 3D printers using JavaScript and Python, increasing testing efficiency by 80%.
- Trained interns and new hires in automation tools and test case writing, receiving a company Spark Award for exemplary performance.

Software Technician
Rockwell Collins, Cedar Rapids, IA
January 2017 – August 2017
- Designed and tested critical flight systems for the aviation industry in an Agile environment.
- Developed automation scripts in Python and set up CI pipelines in Bamboo to automate testing workflows.
- Supported systems engineers with bus development and testing for proprietary aviation software.

Test Engineer
RTI, Shakopee , MN
Mar 2016 – Sep 2016

- Designed and implemented automated test frameworks for home automation hardware and software, ensuring seamless integration with OEM and third-party systems.
- Deployed and configured a test case management server integrated with Redmine for efficient bug tracking and reporting. Tested radiology printers, adhering to FDA regulations for quality control.
- Developed and executed test cases for A/C Z-Wave light switches, verifying the functionality of associated automation software.
- Conducted comprehensive testing of remotes, control processors, in-wall and mounted touch display interfaces, Z-Wave devices, and audio/video distribution matrices.
- Installed and configured professional home theater systems, audio setups, and streaming devices (Apple TV, Google TV, Amazon TV, 4K), mastering protocols and interface technologies.
- Authored custom scripts using proprietary home automation software to automate system testing and enhance testing efficiency.

Software Quality Assurance Technician
Carestream, Oakdale, MN
May 2015 – November 2015

- Tested radiology printers, adhering to FDA regulations for quality control.
- Set up servers for printer interface and conducted verification testing, ensuring imaging systems met quality standards.

Software Test Engineer
Xirgo Technologies Inc, Edina, MN
September 2014 – March 2015

- Developed regression test scripts in C, utilizing Windows libraries for serial connection setup and data parsing.
- Created test cases based on device manuals and generated HTML reports with timestamps for each test case.
- Conducted positive and negative test case analysis, ensuring robust test coverage and accurate device functionality.