Avery Jacobson

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

| **Professional Summary** |
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Accomplished Full Stack Developer and SDET with over 10 years of experience delivering high-quality software solutions. Proficient in full-stack development and automation, with expertise in C, C++, C#, Java, JavaScript, React, TypeScript, and Python. Skilled in Test-Driven Development (TDD) using Jest, Cypress, Git Actions, and CircleCI to enhance code quality and streamline development pipelines. Extensive experience with RESTful and GraphQL APIs, SQL/NoSQL databases, and CI/CD pipelines. Adept at cloud-native development and leveraging frameworks like Selenium, Appium, Cucumber, and BDD to optimize testing. Known for a results-driven approach, innovative problem-solving, and delivering robust, scalable solutions.

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

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

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

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

- **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.