Matthew Curtner

Software Engineer

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LinkedIn | **Github** | **Portfolio**

Software test engineer with 12 years professional programming experience in developing, designing, and delivering innovative IT solutions to meet ever-changing project/business requirements. Leadership, skills, and knowledge refined during the last 12 years in the aeronautical information industry. Expert in developing and implementing software development strategies/user-focused web applications with a range of technologies and programming languages. Possesses an ability to architect reliable, performant, and scalable IT solutions. Equipped with extensive understanding of learning models and object-oriented concepts.

Areas of Expertise

- Project Management
- Software Engineering
- Test Automation Frameworks
- Continuous Integration/Continuous Deployment

- Full Stack Development
- Software Development Lifecycle
- Agile/Scrum Methodology
- IOS Application Development

- Debugging & Analysis
- Test Strategy & Planning
- Team Training & Leadership
- Quality Assurance & Control

Technical Proficiencies

| Java |Spring, JPA | Hibernate | REST | SOAP | C# | Jenkins | Docker | Swift | Objective-C | HTML, CSS, Angular | PL/SQL | Selenium | Cucumber | Javascript | Typescript | XML | .NET | Python | IntelliJ Idea | Maven | Browserstack |API Testing | Agile | Scrum |

Career Experience

Frequentis AG   **2019 – Present**
QA Software Automation Test Manager

Spearhead the integration of Java behavior-driven testing framework into diverse software engineering initiatives, spanning entire project scopes and cross-functional team collaboration. Design, develop, and maintain robust and scalable automation framework to facilitate continuous integration and regression testing. Lead comprehensive software development protocols, encompassing debugging proficiency and adept management of defects. Collaborate with development teams and stakeholders to ensure successful release of premium software products.

- Architected implementation of custom BDD testing framework using Intellij, Java, Selenium and Cucumber/Gherkin

- Management of delivery of high quality robust production code for a diverse array of projects for clients including Eurocontrol, Qatar Airways, Autrocontrol, Estonia, and India air authorities

- Collaborate with project managers and engineers to transform concepts into production realities for clients and stakeholders

- Lead and facilitate company-wide initiatives such as technical system testing best practices

- Provide leadership within development through close collaboration, knowledge shares, and mentorship

- Hands on development and management automation testing framework consisting of Selenium and QF-Test

- Active participant of a Scrum team utilizing Agile methodology

Frequentis AG   **2013 – 2019**
Software Automation Engineer

Utilized Java/J2EE technologies to architect, design, and engineer testing for web and mobile applications within client/server environments.Instructed and educated developers and quality assurance team members in the implementation of automation programs and streamlined processes. Conducted regular performance reviews to identify skill development opportunities and promote culture of learning and growth. Monitored test results, analyzed defects, and provided timely feedback analysis.

- Implemented Rest-assured testing into project API testing

- Distributed automation testing of web and mobile applications for multiple aeronautical information systems

- Collaborated with developers to ensure thoughtful and consistent user experience across web, iOS, and Android devices

- Mentoring of new hires and team members

- Involved in coding reviews, standards, and guidelines

- Applied relevant technical skills to deliver specifications, program changes, unit test scripts, and documentation

- Supported programming changes during quality assurance, user acceptance testing, and post implementation.

- Recognized and improved code inefficiencies that led to a 38% increase in application stability.

Frequentis AG   **2011 – 2013**
Test & Documentation Engineer

Developed and oversaw automated testing protocols utilizing data driven testing frameworks. Executed TestComplete automated test cases to validate software functionality, performance, and security. Implemented comprehensive system integration and acceptance tests to validate software performance and ensure adherence to compliance standards. Created and maintained comprehensive technical documentation, including test cases, procedures, and user manuals.

- Create and execute TestComplete automated test cases to validate software functionality, performance, and security

- Distributed web and mobile testing functionality using Browserstack

- Crafted and updated user training materials while collaborating with product owners on refining test plans and scripts.

- Conducted manual and exploratory testing to validate functional and nonfunctional requirements.

- Developed automated testing protocols utilizing Java-based testing frameworks

- Performed quality assurance tests on various sites to ensure cross-browser compatibility and mobile responsiveness

Additional Experience

ZENworks NTS Support | Novell
Customer Software Support | PolicyTech

Education

Bachelor of Science in Computer Information Technology
Brigham Young University - Idaho - Rexburg, ID

Certifications

Certified ScrumMaster® (CSM®) Scrum Alliance, Inc.
Badge: 654495

Signature Projects

Flight Planning Software for Eurocontrol | Orchestrated the implementation of an extensive test suite of flight planning tools using TestComplete, encompassing Pre-Flight Briefing, Flight Planning, NOTAM reports, and METEO information. Significantly streamlined testing operations and heightened overall efficiency for product deployment to Eurocontrol, a pivotal Aeronautical Data provider in Europe.

Internet Briefing System | Led testing development of a web and mobile application empowering private pilots to seamlessly liaise and coordinate flight plans with aviation authorities (ATC) prior to takeoff. Revolutionized the interaction between pilots and aviation authorities, facilitating efficient pre-flight management, including weather-related adjustments. Successfully deployed in Austria, Portugal, The Netherlands, and Great Britain.

Digital NOTAM Web Portal | Manage testing lifecycle of an ongoing development of a robust web portal that empowers ATC data originators to efficiently manage critical information related to Airports and Airways. Ensured compliance with AIXM5.1.1 standards and elevating data precision, safety, and regulatory adherence. First deployment with Qatar, serving as a paradigm for enhanced safety and operational efficiency.

CATS (Continuous Acceptance Testing Schema) | Innovated project testing with an in-house testing framework utilizing Behavior Driven Development principles and the Cucumber/Gherkin language. Pioneered a comprehensive UI/REST test project, providing exhaustive coverage of 98% of user interfaces and REST APIs. Built upon the Selenium framework, seamlessly integrating Webdriver and Page Object Model/Page Object Factory for precise testing of interface mappings.

IOS App Projects

SplitDegrees | Gesture-driven temperature conversion app
Resistor Colors Calc | Resistance calculation tool for resistors.
Ohm's Law - Calculator for electrical components and Ohm's Law.
Intonation Plus - Guitar and Bass tuner app.
Pocket Networker - Subnet calculation tool for IP ranges.