# James E. Koch, CTFL
Decatur GA, 30033

**Summary:** With a high focus in Cloud Computing, Automated Testing in pipelines, Total Quality Management, and Software Quality Engineering, I strive to understand, diagnose, and correct behaviors by formulating solutions in software and other day-to-day business operations to reach optimal performance. I apply my operations background to software development which compliment my Agile and DevSecOps practices. I understand philosophies for automating testing by being well versed in the most popular frameworks. I apply automation frameworks to develop, execute, organize, and maintain test plans to better assist clients getting through testing in an effective efficient manner. I've developed Web Services for clients to easily interact with their in-house systems.

I possess the ability to coordinate multi-organizational structures such as OEM Applications Engineering, Contract Manufacturing and Test Validation Sites. I possess analytic skills in planning, process, and creating efficiency. I have knowledge of Hardware circuit design in the areas of power supplies and microprocessors. I possess excellent interpersonal and communication skills, strong ethical values, and team orientation. I solve problems in a timely manner and perform well in high stress environments by maintaining focus on goals and adapting to changing requirements. I have strengths in coaching, multi-tasking, time/resource management, and following through on assignments.

**Education:** Bachelor of Science in Business Administration- Management; focus in Computer Science and Operations Technology Management.    **Coastal Carolina University, Conway, SC.**    **May 2015**

**Certification:** AWS Certified Cloud Practitioner    **April 2022**

International Software Testing Qualification Board- Foundation Level Certificate.    **May 2015**

**Software:** Cypress, Playwright, Webdriver.IO**,** Appium, Selenium, AWS, Azure, JMeter, Gitlab, Jenkins, Cucumber, Android, Swift, Xcode, OSX, Windows, JIRA, Java, JavaScript, NodeJS, C#, Python, Ruby, PHP, VB Script, HTML and CSS.

**Work Experience:**

**Slalom Inc.  Quality Engineering Solutions Architect**    **Atlanta, GA. Nov 2020- Present**

- Workers Compensation and Insurance Industry- Responsible for a team of 5 QA and 2 SDETS on a greenfield application to replace old legacy reporting system. The client tasked us with revamping a data ingestion pipeline for all policy, claim, and statistical reporting that is a state wide mandate around accurate reporting. To do so I created test automation that parsed millions of lines of flat files and ran validations and relation DB tests. Technology included Playwright, Microsoft Azure services and Power BI.
- Cruise Industry- Responsible for QE Discovery; creating and implementing test strategy for green-field backend application. Developed framework for contract tests with Axios and Jest; integration tests with AWS SDK and Jest. Implemented tests in pipelines using Serverless, CloudFormation, and Terraform.
- Pharmaceutical Industry- Conducted a lift and shift on a Selenium 3.14 framework to WebDriver.IO. The medical information portal written with React.js application so parody with the programming

language was first objective. Developed API tests for the Java Springboot backend with REST Assured.

- Automotive Industry- Developed test automation against React front ends with Playwright for web and WebDriver.IO for mobile which extended into BrowserStack; backend test automation utilized xUnit framework against dotnet. Responsible for day-to-day sprint activities and coaching junior team members.
- Energy Industry- Developed data pipeline tests with AWS SDK and Rest Assured. The team's purpose was to connect hardware data from sensors in refineries and pass it to a propriety energy saving algorithm to adjust oxygen and fuel levels. This required us to test EventBridge events to S3. Black and White-box approaches were implored to validate User Story sprint work. Helped client implement Agile practices by setting up sprint and program ceremonies.

**Prometheus8- Quality Engineering  Solutions Architect            Atlanta, GA. May 2015- Nov 2020**

- Implemented DevOps processes to existing Continuous Integration and Delivery routines.
- Consulted customers of all kinds of scope including government contracts, small businesses, one of the largest media outlets in the sports entertainment industry, and one of the fastest growing transportation companies in the country.
- Built and tested server-less AWS applications using EC2, MongoDB, Lambda, and Cloud Formation.
- Contributed in enhancing and developing FogChain's existing automation development solutions.
- Created API Automation Framework using NodeJS, Mocha, Chai, and SuperTest client.
- Created and executed performance testing and monitoring solutions built with JMeter.
- Developed advanced GitLab Pipeline routine that move across multiple repositories.
- Developed extensive UI framework using WebDriver.IO and Node.JS.
- Used Java, Python, and Robot for test case development and execution on iOS and Android devices.
- Created and executed smoke test for applications on iOS and Android devices.
- Developed test suites for Appium using Maven, JUnit and TestNG.
- Developed extensive knowledge of the Page Object Model and Keyword Driven Frameworks.
- Taught clients how to apply Test Driven Development practices to their ALM and SDLC.
- Experience in test automation for mobile cloud devices through BrowserStack, Kobiton, SauceLabs, SIGOS App Experience, and Amazon Web Services: Device Farm.
- Contributed to servlet and web service development for end customers.
- Created and implemented testing standards for Agile development teams.
- QA Lead Coordinator for internal product teams as well as external consulting clients.
- Managed multiple development projects as a Scrum Master.
- Orchestrated testing cadence for client with several mobile and web applications.
- Implemented Application Lifecycle Management (ALM) for new and existing clients.
- Developed a training program for Appium and Selenium users, internal clients, and customers.
- Trained internal team on Appium's components and practices.
- Demonstrated knowledge of Visual Basic by applying it to UFT framework.
- Developed CI Pipelines with the Microsoft stack including Azure, Team Center, Visual Studio
- Collaborated with members from each operation's line-of-business division and business development team members in a leadership capacity.

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**SiriusXM Satellite Radio- Software Test Engineer I Deerfield Beach, FL          May 2013-May 2014**

- Responsible for the development and execution of software validation test plans for SiriusXM Satellite Radio receivers.
- Assisted in the development of user interface software specifications for SiriusXM Radio receiver products and in the development of semi-automated testing scripts using in house tools for formal requirement compliance.
- Assisted in the creation of comprehensive user interface software validation test plans for each receiver product, to include cases to exercise each user interface feature and function, each entry condition, and each exit condition.
- Performed formal verification and validation of the user interface software on each receiver product at each phase of the product development process.
- Developed and executed testing platforms related to Data Services as they relate to new partner programs on both satellite bands.
- Focused on organizing test plans between high and low band services.
- Generated standardized software validation test reports and user interface issues lists for communication of status both internally within SiriusXM and to SiriusXM receiver manufacturer partners to support various OEM's.
- Collaborate with SiriusXM receiver manufacturer partners to resolve outstanding user interface software issues during the product development process.
- Conducted extensive Beta-testing on SiriusXM's Mobile Application and Consumer Electronic products along with critical inrush current hardware testing on numerous OEM units equipped with SXM.