Alex Carroll

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PROFESSIONAL ACCOMPLISHMENTS

- 6+ years experience in automated software testing, with over 14 years experience in RF networking.
- Enterprise experience crafting comprehensive testing frameworks and tooling that increased release cadence.
- Champions a culture of continuous learning and mastery of craft. This includes leading lunch and learns, implementing innovation sprints, and promoting paired programming.
- Agile acolyte with experience operating in Scrum and Kanban environments.

WORK EXPERIENCE

Software Test Engineering Lead, Automated Test – Boeing   2020-01 – Present
- Provided technical leadership to a distributed team of eight SDETs.
  - Promoted responsible Python engineering and cloud native computing best practices.
  - Leveraged Ansible to craft and maintain a consistent Ubuntu developer environment experience.
  - Maintained architecture and managed developer tasking for over 50,000 lines of Python code.
- Used Groovy, Bash, and Go to integrate automated tests within a common Jenkins CI/CD pipeline.
- Developed a series of Python based microservices that operate across a variety of Kubernetes environments.
- Promoted cloud native computing best practices, including Dockerfile construction, repeatable deployments via Helm, static code analysis, and OpenAPI contract adherence.
- Implemented an instrumental base container that resolved more than a thousand cybersecurity vulnerabilities.
- Architected and promoted a custom Jira system for DoD requirement definition, traceability, and validation.

SR SDET – Quantum Research Intl. (Contract)   2018-10 – 2020-01
- Lead development on an automated Python GUI testing framework for a .NET application.
- Trained a team of 4 manual testers to develop and implement automated test plans.

SDET – Lockheed Martin – (Contract)   2017-07 – 2018-10
- Developed a custom GUI testing framework that leveraged Python, Selenium, and Sikuli to test a Java application.
- Reduced the regression test cycle from quarterly to nightly. A custom test framework leveraging Python and Gherkin enabled test plan creation by SMEs with no automated test experience required.
- Implemented automated tests across a record breaking Red Hat Enterprise Linux deployment.

Automated Test and Integration Engineer – RT Logic   2016-06 – 2017-06
- Implemented automated processes in hardware test, deployments, documentation, and tracking.
- Created Python based automated systems that reduced hardware integration and test cycle from 80 hours to less than 8.

SATCOM Operator/Network Planner – US Army   2008-11 – 2015-06
- Lead a team of 12 soldiers during on-orbit operations of a $1.2 billion satellite constellation.
- Developed operational best practices and trained more than 40 soldiers as the WGS position NCO.

EDUCATION

BS Information Technology   2017
University of Maryland, Global Campus   *Adelphi, MD*

BS Computer Science - In Progress   2024
Georgia Southern University   *Statesboro, GA*