

# Alex Carroll

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## PROFESSIONAL ACCOMPLISHMENTS

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- 6+ years experience in automated software testing, with over 14 years experience in RF networking.
- Enterprise experience crafting comprehensive testing frameworks and CI/CD pipelines that increased release cadence.
- Champions a culture of continuous learning and mastery of craft.
- Agile acolyte with experience operating in Scrum and Kanban environments.

## WORK EXPERIENCE

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### 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 operated 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

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<b>BS Information Technology</b>	<b>2017</b>
<i>University of Maryland, Global Campus</i>	<i>Adelphi, MD</i>

<b>BS Computer Science - In Progress</b>	<b>2024</b>
<i>Georgia Southern University</i>	<i>Statesboro, GA</i>