

Leon Machado-Wilcox

📍 Norwood, MA •  [GitHub](#) •  [LinkedIn](#) •  leon.machado.wilcox@gmail.com Versatile SDET | Python • C++ • Java | API Testing • Secure Coding • Business-Savvy

Summary

Quality Assurance Engineer with 15+ years of experience ensuring software quality, stability, and performance. Holds dual Bachelor's degrees in Computer Science and Business Management. Skilled in Python-based test automation, client/server systems, and secure coding practices. Adept at bridging the gap between technical execution and business goals. Versatile in C++, Java, and Python dedicated to building clean, maintainable systems that align technical performance with real-world outcomes.

Technical Skills

Languages: Python, C++, Java, SQL Frameworks/Tools: Flask, Pytest, Postman, Selenium, MongoDB, Git, Dash Testing: Automation, Regression, Unit, Integration, API Testing Concepts: OOP, Data Structures & Algorithms, REST APIs, Secure Coding, CI/CD, Agile

Professional Experience

QA Engineer II at SimpliSafe — *Boston, MA • Aug 2021 – Apr 2025*

- Performed regression testing for new releases across desktop and web platforms
- Maintained and executed test cases, verifying bug fixes and performing validation cycles.
- Logged defects with detailed reproduction steps and collaborated with developers to triage issues

Software Engineer in Test / Associate QA Engineer at Nasuni — *Natick, Boston, & Marlborough MA • Apr 2015 – Jul 2021*

- Migrated legacy test suites to updated APIs\
- Expanded test scenarios using multivariate testing protocols\
- Built automation coverage across multiple environments

Associate QA Engineer at Carbonite — *Boston, MA • Jan 2012 – Jan 2015*

- Developed test automation using Eggplant for Mac & Windows\
- Designed diagnostics tools for root-cause bug analysis\
- Researched QA tooling, assisted in hiring evaluations, and received multiple commendations for due diligence

Capstone Project: Multi-Language Software Suite

Southern New Hampshire University — *Capstone Project (Final Term, 2025)*

Developed a modular, multi-language software system as part of senior coursework, combining Python, Java, and C++ into a unified platform:

- Built a **C++ CLI toolkit** to benchmark data structures and algorithm efficiency
- Developed a **Java socket-based client/server communication layer**
- Implemented a **REST API with Flask** and visualized metrics via **Dash dashboard**

- Created automated test suites using **Pytest** and **Postman**
- Applied secure coding practices and documented the full deployment pipeline
- Integrated learnings from **CS-300 (Software Engineering)**, **CS-320 (Object-Oriented Programming)**, and **CS-340 (Database Management)**

Education

B.S., Computer Science

Southern New Hampshire University — Sep 2025

B.S., Business Management: Operations

Bridgewater State College — Jan 2005

Honors & Awards

Eagle Scout

Portfolio and code samples available on [GitHub](#)