

NOEL JACKSON

Senior Software Development Engineer in Test (SDET)

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PROFESSIONAL SUMMARY

Senior Software Development Engineer in Test (SDET) with a Master's in Network Engineering (specializing in Big Data and Machine Learning) and deep expertise across AI product security, high-performance computing, and AAA game development. Proven track record in bridging the gap between development and QA by architecting scalable automation frameworks, deploying robust CI/CD pipelines, and writing efficient testing scripts. Adept at ensuring the highest level of quality control in fast-paced, hardware-intensive, and AI-driven environments.

CORE COMPETENCIES

- Languages & Scripting:** Python, C++, TCL, Java, TypeScript, MQL5, SQL
- Test Automation & QA:** Selenium, Playwright, Unit Testing, UI Testing, REST API & API Testing, Dashboard Testing, Analytic Testing, ETL/ELT Testing, AI-driven Tools, OPC UA Protocol, Framework Architecture, Edge-Case Defect Identification
- Domain Expertise:** Big Data & Machine Learning, AI Product Security, Algorithmic Engineering, Data Governance
- Mobile & Web Apps:** React, Flutter, iOS, Android

PROFESSIONAL EXPERIENCE

Senior Software Development Engineer in Test (SDET) Nov 2025 – Present

Abacus.AI | San Francisco, CA

- Architected and maintained scalable testing frameworks for AI-driven products using Python and C++, reducing manual QA bottlenecks and accelerating release cycles.
- Collaborated with cross-functional engineering teams to implement robust CI/CD pipelines, ensuring rapid and bug-free feature deployments.
- Conducted comprehensive UI, REST API, and dashboard testing, utilizing SQL to validate backend data integrity and optimize user-facing AI functionalities.

Quality Assurance Specialist Sep 2023 – Nov 2025

Rockstar Games | Bengaluru, India

- Ensured the highest level of software quality for industry-defining AAA gaming titles including GTA 6, GTA 5, and Red Dead Redemption Online.
- Identified critical bugs, verified complex fixes, and collaborated with cross-functional teams in a high-performance, fast-paced environment.
- Executed rigorous analytic testing to validate complex game telemetry and ensure the accuracy of player data pipelines.

Algorithm Engineer

Mar 2023 – Sep 2023

Nergal Enterprises | Bengaluru, India

- Engineered and automated algorithmic trading strategies, transforming complex financial logic into high-performing Expert Advisors (EAs).
- Developed and deployed automated trading systems on the MT5 platform utilizing MQL5 and Python scripts for automation and data fetching.
- Backtested and optimized trading algorithms against extensive historical market datasets to validate strategy execution, profitability, and risk management.

Software Engineer

Oct 2021 – Mar 2023

Siemens | Bengaluru, India

- Engineered robust industrial test automation frameworks utilizing the OPC UA protocol to validate secure, high-performance machine-to-machine communication.
- Developed and executed comprehensive automated test suites written in C++ and TCL to ensure the reliability and safety of complex industrial automation software.
- Designed and built custom internal testing tools from scratch, streamlining QA workflows and significantly accelerating software deployment cycles.
- Led backend and integration validation by performing ETL, ELT, API, and analytic testing, leveraging SQL to verify massive data transformations across industrial systems.

Software Engineer (QA Automation)

Aug 2021 – Oct 2021

Capgemini | Pune, India

- Designed and executed automated testing scripts using Selenium and Java to validate software functionality and performance.
- Conducted comprehensive manual testing protocols to identify edge-case defects before production deployment.

Mobile Application Developer

Mar 2021 – Aug 2021

Startup Story Media | Delhi, India

- Developed and launched cross-platform mobile applications for iOS and Android platforms utilizing React and Flutter frameworks.

EDUCATION

Master of Technology, Network Engineering (Big Data & Machine Learning)

2019 – 2021

Rajagiri School of Engineering & Technology

Bachelor of Technology, Computer Engineering

2015 – 2019

Nehru College of Engineering and Research Centre

CERTIFICATIONS & PUBLICATIONS

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- **Certifications:** ISTQB, AI Product Security, Privacy & Data Classification, CompTIA Data+ (DA0-001) Cert Prep, Advanced C++
 - **Publication:** An Intelligent Method for Network Intrusion Detection System