Okeke David Tobechukwu

QA Engineer Mechanics

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Profile

Computer Science graduate experienced in **system-level verification of embedded and software-integrated systems**. Skilled in **translating requirements into measurable test cases** and executing structured stress, regression, and power-cycle testing. Analytical and practically inclined, with a strong focus on ensuring reliable product quality before release.

Work Experience

- **Youngstival** Kristianstad, Skåne
  Mobile Developer Intern *Oct 2024 – Sep 2025*
  - Reduced coordination time by **6-8 hours weekly** by analysing booking logic in a **Kotlin + Firebase** system and enforcing structured validation across **200+** pilot users.
  - Improved event readiness by **20%** by validating real-time dashboards under concurrent load using **Firebase Emulator Suite** and boundary-condition testing.
  - Increased reporting accuracy by **30%** by implementing server-side validation in **Firebase Cloud Functions** and confirming integrity through regression testing.
  - Reproduced asynchronous update failures using **log tracing and controlled test scenarios**, verifying corrective fixes before release.
- **Luday AB** Gothenburg, Västra Götaland
  Full-Stack Developer Intern *Jun 2024 – Sep 2024*
  - Reduced post-release defects by **15%** by converting feature requirements into structured API test suites using **Postman** and automated **Jest** tests before **Bitbucket** merges.
  - Identified recurring backend faults in **Python** services through controlled edge-case testing and root-cause analysis, validating stability after fixes.
  - Prevented peak-traffic failures by conducting **PostgreSQL** load simulations and verifying response thresholds under stress conditions.
  - Strengthened release quality by executing **regression** and **integration testing** across **React/Next.js** interfaces and **REST APIs**.

Projects

- **HomeSync – IoT Device System Verification**
  Arduino Multi-Device Embedded System *Feb 2025 – May 2025*
  - Validated actuator and sensor reliability across multiple **Arduino boards** by executing **GPIO** and **signal-stability tests** using serial diagnostics.
  - Performed **500+** power-cycle tests and **4-hour stress runs** while monitoring voltage with a multimeter to detect instability under load.
  - Reduced command latency from **350ms** to **sub 200ms** by measuring response times via serial logging and iterative communication optimisation.
  - Simulated communication faults and invalid inputs to document failure modes and verify deterministic device behaviour.

Leadership & Collaboration

Sprint Facilitation & Team Alignment

- **Facilitated structured sprint retrospectives and requirement-alignment sessions**, clarifying acceptance criteria and ensuring measurable verification goals were agreed across developers, designers, and project stakeholders.

Structured Feedback & Quality Communication

- Delivered clear defect **documentation** and **validation feedback** during testing cycles, enabling faster corrective action and improving team-wide understanding of system-level quality expectations.

Education

- **Kristianstad University** — Kristianstad, Skåne
  B.Sc. in Computer Science — *Aug 2022 – Jun 2025*
  - **Relevant Coursework**: Software Engineering, Database Technique, Computer Security

Skills

- **Hardware & Embedded Verification**: Stress Testing, GPIO Validation, Fault Simulation, Latency Measurement
- **QA & Test Execution**: Requirement Translation, Structured Test Planning, Regression & Integration Testing, API Validation, Unit Testing
- **Technologies**: Kotlin, Firebase, Cloud Functions, React, Next.js, Python, Node.js
- **Tools**: Postman, Jest, Bitbucket, GitHub, Jira, Confluence, Docker, Firebase Emulator Suite

Languages

- **English**: Fluent
- **German**: B2 (Upper-Intermediate)