

# John Owolabi Idogun

Software Engineer and Aerospace Systems Technician

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Systems Software Engineer and Aerospace Systems Technician with expertise in backend architecture, distributed systems, and cyber-physical diagnostics. Experienced in Rust, Go, and Python development with a strong foundation in computer systems, networking, and database systems. Currently supporting intermediate-level maintenance and diagnostics for F414-GE-400 turbofan engines and FADEC systems at Fleet Readiness Center West.

## 01 / EDUCATION

### Academic Record

2026-01-23

#### Master of Science (M.S.)

Computer Science

Stony Brook University

GPA: 3.6/4.0

2021-10-20

#### Bachelor of Engineering (BEng.)

Computer Engineering

Federal University of Technology, Akure, Nigeria

GPA: 4.65/5.0

## 02 / PROFESSIONAL EXPERIENCE

### Field Record

2025-11 → Present · California, USA

#### Embedded and Aerospace Systems Technician

United States Department of War

- Perform advanced third-degree maintenance and diagnostic troubleshooting on high-performance aerospace propulsion systems (F414-GE-400 turbofan).
- Analyze diagnostic data from Full Authority Digital Engine Control (FADEC) networks to resolve complex hardware-software integration faults.
- Execute precision non-destructive inspections, including fiber-optic borescoping, to identify microscopic component defects and prevent system failures.
- Translate digital sensor errors into actionable mechanical repairs, ensuring strict adherence to technical schematics and safety protocols.

2023-08 → 2025-05 · Stony Brook, NY

#### Graduate Teaching/Research Assistant

Stony Brook University

- Developed a Python-based benchmarking suite to automate performance analysis of logic and database systems executing recursive queries.
- Built automated benchmarking pipelines comparing multiple logic and database environments.
- Contributed to courses including Computer Systems Fundamentals I (CSE 220), Software Engineering (CSE 416), Database Design and Practice (ISE305), and 2D Game Programming (CSE 380).
- Developed test cases, proctored exams, and graded programming assignments.

2021-10 → 2023-10 · Lagos, NG

#### Software Engineer

QuickCheck

- Developed automated systems for loan investigation and reporting, significantly reducing manual processing time.
- Built loan recovery services integrating multiple agencies and automated reporting pipelines.
- Automated customer credit-level upgrades improving accuracy and reducing operational errors.

Last updated: 2026-03-07

## 03 / TECHNICAL ARSENAL

### Skills

#### LANGUAGES

Python Rust Golang  
C JavaScript TypeScript

#### FRAMEWORKS

Django Actix Axum  
SvelteKit

#### DATABASES

PostgreSQL DuckDB  
Neo4j

#### COMPETENCIES

Secure backend architecture  
API development  
System behavior analysis  
Automated compliance  
Hardware-software diagnostic integration

## 04 / STRATEGIC OBJECTIVES

### Mission Goals

#### 01 Primary Military Goal

Commission as a U.S. Navy Information Warfare Officer (Cyber Warfare Engineer - 1840 or Maritime Cyber Warfare Officer - 1880).

#### 02 Secondary Civilian Goal

Transition into defense or aerospace as an Embedded Systems Engineer or Software Engineer.

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