Gift Anderson MOUTCHEU

Software Engineering Student (M.Eng.) at IMT Atlantique · Quantum Software · Java / Spring Boot · Angular
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Looking for a 4–5 month internship from 1 April 2027 · Quantum software or software engineering · Brest, open to relocation

PROFILE

Engineering student at **IMT Atlantique** building software for **quantum computing**. Researching **runtime assertions to debug quantum programs** with **Qiskit**. Three internships in **Agile Scrum** teams; deployed projects in **Java / Spring Boot**, **Angular**, **Docker**, **CI/CD** and the **cloud**. Co-author of an LLM + RAG research paper.

RESEARCH EXPERIENCE

SWAP-based runtime assertions for debugging quantum programs
Oct 2026 – present

IMT Atlantique · research paper

- **Problem:** measuring a quantum state changes it, so bugs cannot be found by inspecting intermediate states. **Approach:** reviewed state-of-the-art quantum assertions (statistical, dynamic, SWAP-based); applying **SWAP-based runtime assertions** to common quantum algorithms in **Qiskit** to check a qubit's state mid-run.
- **Evaluation:** fault injection (removed gates, wrong gates, reordered instructions) on the noisy **IBM Aer simulator**; a bug is flagged when the error rate exceeds **5%** of shots; real IBM hardware if time permits.

Campus assistant with LLM and RAG — research paper (team of 7)
2025 – 2026

Institut Universitaire Saint Jean

- Bilingual **retrieval-augmented generation** system deployed on **AWS**, built with the **Nunamaker** framework; empirical evaluation with **23 participants** (TAM + cognitive walkthrough).

PROFESSIONAL EXPERIENCE

Frontend Developer & UI Designer intern — BookInn hotel management system
May – Aug 2026 · 4 months

ISNOV SARL

- Designed receptionist screens in Figma, built in **Ionic / Angular** for web and mobile, plus **Spring Boot** REST endpoints; multi-view booking calendars with conflict handling and a live KPI dashboard: **6 modules shipped**, **16 sprint reviews**.

Mobile Developer intern — Kotlin Multiplatform
Jun – Aug 2025 · 3 months

ORION

- Android, desktop and web app from one codebase (Jetpack Compose, MVVM); learned the stack in **under 2 weeks**.

UI Designer & Frontend Developer intern — Point-of-sale app
Jun – Aug 2024 · 3 months

ISNOV SARL

- Built from scratch in a team of 3: needs analysis, **15+ Figma frames**, **Angular** front end; **0 late sprints**.

SOFTWARE ENGINEERING PROJECTS

LogiTrack — microservices delivery tracking
2025

Team of 5 · Spring Boot · Angular · Docker · GitHub Actions · AWS · deployed

- **4 Spring Boot microservices** behind an API gateway, Angular dashboard; CI/CD (Maven, JUnit, Docker) to AWS.

RETAIL CLOUD — SaaS invoicing for small businesses
2025

Personal project · Spring Boot · Angular · GitLab CI/CD · Nginx · deployed

- UML design, JUnit 5 / Mockito tests; Linux server set up from scratch (Docker, Nginx, SSL, GitLab pipeline).

EDUCATION

M.Eng. — Software and Distributed Systems Engineering (ILSD)
2026 – 2028

IMT Atlantique · Brest, France · double degree

M.Eng. — Computer Science and Information Systems · GPA 3.53/4.0
2022 – 2026

Institut Universitaire Saint Jean

TECHNICAL SKILLS

Quantum: Qiskit · IBM Quantum · Aer simulator · quantum circuits · Grover, Shor, VQE · runtime assertions
Back end: Java · Spring Boot · REST APIs · microservices · JUnit 5 · Mockito · SQL
Front end & mobile: Angular · TypeScript · Ionic · Kotlin Multiplatform · Jetpack Compose · Figma
DevOps, cloud & other: Docker · GitHub Actions · GitLab CI/CD · Nginx · AWS · Linux · Python · Go · LLM / RAG · Scrum · UML

CERTIFICATIONS, LANGUAGES & INTERESTS

IBM Quantum — Qiskit Global Summer School (2026) · **Cisco** — Python Essentials 1 & 2 (2024–25) · **ETS** — TOEIC 930/990
Languages: French — native · English — fluent · German — beginner
Interests: Quantum computing · Nanbudo (green belt) · Electric guitar · Reading (history, sci-fi)