

# Antoine James | Backend Engineer (Java/Rust)

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I am a **Java** and **Rust** Engineer with a strong background in backend development and DevSecOps, leveraging over **3 years** of professional experience in **Java** and **security engineering**. I've transitioned into the **Web3** industry and have built **production-ready backend systems** using **Java** and **Rust** through **freelance** (NDAs) and **personal projects**.

My expertise spans **asynchronous programming**, **concurrency**, **database** integration, cloud services (**AWS**), **REST APIs**, and **CI/CD** pipelines. I follow **SOLID** principles and deliver **microservices** tailored for **scalability**. I am skilled in clear **technical documentation** and **collaborating effectively** within a **team** on an agile workflow.

## EDUCATION

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### [EFREI PARIS](#), Paris, France

MSc in Cybersecurity and Management (*Part-time*)

Sept 2024 - Present

## RELEVANT WORK EXPERIENCE

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### [FORMAL LAND](#), Paris, France

Contract - Security Researcher | Formal Verification Engineer

Sept 2024 - Present

- Formalisation of [Sui](#)'s type-checker and interpreter in **Rust** using [Coq](#)
- **Upcoming project** (*Funded by the Ethereum Foundation*) — Verification of the [revm](#) (Rust Ethereum Virtual Machine) and building a verification framework for **ZK-circuits**
- Participating in two sessions every two weeks with a senior cryptographer from [OI Labs](#) to study cryptography, basic algebra, and learn more about **ZKP**, including **PLONK**, **STARKs**, **SNARKs**, **multivariate** and **univariate polynomials**

### [MYCOM OSI](#), Paris, France

Contract - DevSecOps Engineer

May 2023 - March 2024

- Reduced **critical CVEs** by **33%** each quarter across **220+** containers.
- Reduced **total vulnerabilities** by over **80%**.
- Resolved **pipeline failures** using GitLab and Jenkins, leading to container investigations.
- Created automation scripts using **Python** and **Bash**.
- Led **security presentations** for an **international audience** of over **50 software engineers**.

### FREELANCE, Remote, France

Contract - Backend Developer (Java)

2016 - 2018

- **Developed** and maintained **high-performance** plugins for Minecraft servers, leveraging **Git**, **API** design, **performance optimisation**, and **database management** to support **1000+** daily users.

## GITHUB PROJECTS

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- [Severum Backend](#) (**Rust**) - Building the **backend API** using [Axum](#), **REST API**, **Postgresql** (*in progress*)
- [Rustler](#) (**Rust**) - Building is a backend service for **low-latency** file uploads, processing, and storage. The idea is to handle large files efficiently, process them asynchronously. Using **AWS S3**, **RDS PostgreSQL**, **Redis**, **Docker** (*in progress*)
- [MediLabo](#) (**Java**) - A complete **microservices** application using **REST API**, **MongoDB**, **Docker**
- [TourGuide](#) (**Java**) - Refactored a project to use **concurrency**.

## SKILLS

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- **Programming:** **Java**, **Rust**, Solidity, Python, Bash
- **Tools:** **Jetbrains IDEs**, VS Code, **Postman**, **Docker**, **Git**, **CI/CD** (Jenkins), **AWS** (S3, RDS, Lambda, Inspector, ECR..), **Jira**
- **Capabilities:** High-Performance, **Async/Concurrency**, **Low-Latency** Architecture, **SOLID/DRY** Principles, Kanban/Scrum
- **Tech Stack:** **REST APIs** (Axum), **Microservices**, **PostgreSQL**, **MongoDB**, **Redis**, **DynamoDB**

## ACHIEVEMENTS

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- Contribute to the [coq-of-rust](#) open-source repository.
- **Hackathon:** [Kiln 2025](#) (upcoming), [ETH Bucharest](#) (upcoming)

## CERTIFICATIONS

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- [AWS Cloud Practitioner](#)