

GRÉGOIRE MAROUSÉ

Back-end Java Developer · Applying to the Industry MSc in Computer Science and Engineering at DTU

Séné, France · moving to the Copenhagen area | +33 6 18 78 93 61 | gregoiremarouse@gmail.com | marouse.fr | [LinkedIn](https://www.linkedin.com/in/gregoiremarouse/)

PROFILE

I build back-end services in Java. I have been doing it since September 2025 at Crédit Agricole Technologies & Services, the IT arm of France's largest mutual banking group. I work on the enrolment APIs for digital payment methods. I am finishing a three-year Computer Science degree, ranked 1st of 80 in my last full semester. I am now applying to the Industry MSc at the Technical University of Denmark (DTU) and looking for a company around Copenhagen to host the project, for four years from September 2027. The work I care about: AI applied to software engineering and cybersecurity. As a French citizen, I can work in Denmark without a permit.

PROFESSIONAL EXPERIENCE

Back-end Java Developer, work-study — *Crédit Agricole Technologies & Services (CA-TS)*

Vannes, France · Sept 2025 – Aug 2027

- Built and maintained REST APIs in Java and Spring Boot, in the squad that runs the enrolment APIs for digital payment methods.
- Fixed known vulnerabilities (CVEs) and upgraded dependencies, with security gates in the pipeline.
- Shipped through GitLab CI/CD across four environments, up to production.
- Worked to GDPR requirements on data handling.

Kitchen Team Member (Summer Job) — *Burger King*

Ploeren, France · Jul – Aug 2024

ENTREPRENEURIAL VENTURES & INDEPENDENT PROJECTS

Founder — Reboot ECO [website](#)

2024 – Present · Laureate of “L’Agitateur”, student-entrepreneur programme (UBS Foundation / Pépite Bretagne), season 4

- We collect, repair and resell computer equipment at low prices, to cut electronic waste and reach people who cannot afford new machines.
- Built the platform end to end: online sales, donations and customer emails (React, Express.js, MySQL, Docker).

AI tools — personal project, in progress

2025 – Present

- Building tools on top of existing AI models, such as speech-to-text and text generation, to make digital services affordable for individuals and small organisations.
- Early-stage work: prototypes around AI-assisted web development and content production, automated with n8n.

EDUCATION

Three-year Computer Science degree (BUT Informatique) — *IUT de Vannes*

Vannes, France · Sept 2024 – Aug 2027 (expected) · Work-study track, final year

- Track: deployment of secure, connected applications. Ranked 1st of 80 in semester 3 and 2nd of 102 in semester 2, all credits earned.

International Baccalaureate Diploma and French Baccalauréat (science track) — *Lycée Saint-François-Xavier, Vannes*

Vannes, France · Sept 2022 – Jul 2024

- International Baccalaureate: 28 points. Higher level: mathematics (analysis and approaches), physics, philosophy.
- Extended essay in computer science, grade B.
- Mathematics exploration on primality testing: Solovay-Strassen, with proofs of the Legendre symbol and its generalisation, the Jacobi symbol.
- English B, standard level: 5/7. This meets DTU's English language requirement.
- French Baccalauréat: 15.83/20, passed with merit. Specialisms in mathematics, physics-chemistry and computer science (NSI), with the further mathematics option.

TECHNICAL SKILLS

- **Languages:** Java, Python, TypeScript, JavaScript, C#
- **Back-end & API:** Spring Boot, Maven, REST APIs, Postman
- **Web:** React, Deno Fresh, Express.js, Tailwind CSS, WordPress
- **Databases:** Oracle, MySQL, PostgreSQL, MongoDB, SQLite, Deno KV
- **Delivery & CI/CD:** GitLab CI/CD, Argo CD, Kubernetes, Docker, JFrog Artifactory, Git, Bash, Linux
- **Self-hosting:** OVH VPS since 2021 (Linux, Docker, Traefik, Let's Encrypt, DNS)
- **Security:** CVE remediation, SonarQube, JFrog Xray, Nmap, Metasploit, cryptography
- **AI & methods:** scikit-learn, Keras, n8n, Claude, GitHub Copilot · Scrum, Jira, code review

SELECTED ACADEMIC & PERSONAL PROJECTS

Def'IUT — coding challenge platform

- Full-stack platform: sign-in, submission handling and isolated code execution in a Docker sandbox. REST API with Express.js, React and MySQL.

AI vs Maths — comparing machine learning models (IB extended essay, grade B)

- Trained and compared machine learning and deep learning models (scikit-learn, Keras) to solve degree-2 and degree-5 polynomials, then measured where each approach breaks down.

Kioptrix Level 2 — penetration test

- Lab exercise on a deliberately vulnerable machine: Nmap reconnaissance, SQL injection, remote command execution for a reverse shell, then a kernel exploit to root.

LANGUAGES & INTERESTS

- **Languages:** French (native) · English (B2) · Spanish (B1, reading and listening) · Japanese (beginner)
- **Strengths:** teamwork, autonomy, rigour, curiosity for new tools
- **Interests:** Go and chess, puzzles, Japanese culture, cooking