

# ALEXIS VAPAILLE - SOFTWARE ENGINEER

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Software engineer with 7–8 years of coding experience and a strong academic background from ESIEE Paris. Proficient in **Python, Rust, React, Docker**, and **CI/CD**, with proven experience in leading projects and delivering effective software solutions. Passionate about emerging technologies such as Deep learning.

## RELEVANT EXPERIENCES

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### Application Development Consultant

Paris, France

Ministère des Armées (French Ministry of Armed Forces)

09/2025 - Present

- Provide consulting services for application development projects within a **15-person team**, collaborating with internal teams to design and implement technical solutions.
- Manage application deployments across multiple environments, ensuring smooth releases and environment consistency.

### Project Manager and Full-stack Developer

Bry-sur-Marne, France

EPI

09/2022 - 08/2025

- Developed a **Spring Boot** backend application deployed in **Docker** containers, implementing **GitLab CI/CD** pipelines for automated testing and deployment across multiple environments.
- Built a **MERN** stack application with **RESTful API** design, implementing CRUD operations following **SOLID principles** and integrating a RAG-based chatbot, serving **150+ employees**.
- Developed a **React**-based internal tool with 3D visualization capabilities for IFC models, featuring measurement and annotation functionalities, improving team productivity.
- **Collaborated with cross-functional teams** including product managers and business stakeholders to design and implement technical solutions aligned with business requirements.

### Site Reliability Engineer (SRE) Intern

Paris, France

Iguane Solutions

06/2021 - 08/2021

- Configured and maintained **LAMP server** infrastructures, ensuring optimal performance and meeting client requirements.
- Built a prototype application in **Go**, successfully creating a draft version of it.

## PROJECTS

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### Neural Network Library

Co-developed a high-performance neural network library in **Rust** with **CPU and Metal GPU backends**. Designed with focus on performance optimization, system-level programming, and efficient resource utilization. Achieved **11x speedup** on Apple Silicon. ([Source code](#))

## EDUCATION

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### University of California San Diego

San Diego, California

Exchange studies - **GPA: 4.0/4.0**

09/2024 - 12/2024

### ESIEE Paris

Noisy-le-Grand, France

Engineering Degree (M.Sc. in Software Engineering) | Work-Study Program

08/2025

### 42 (Peer-Learning School)

Paris, France

The Common Core

11/2022 - 08/2023

### Gustave Eiffel University

Noisy-le-Grand, France

Bachelor in Computer Science and Mathematics

08/2023

## SKILLS

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**Programming languages:** Rust, Python, TypeScript, Go, Java, C, C++

**Containers & Orchestration:** Docker, Kubernetes, container deployment and management

**Infrastructure & Cloud:** AWS, GCP, Linux server administration, Terraform, Ansible

**CI/CD & Automation:** GitLab CI/CD, GitHub Actions, automated deployment pipelines

**Soft Skills:** Team collaboration, autonomous work, clear communication, fast learner

**Languages:** French (Native), English (TOEIC: 810/990, Duolingo: 110/160)