Adam AIT HAMID

Paris, France | adamaithamid02@gmail.com | +33 7 54 18 02 55
linkedin.com/in/aithamid | github.com/aithamid
Portfolio

Summary

Versatile Software Engineer with experience in Front-end, Back-end, AI, and DevOps. I enjoy tackling diverse challenges and building efficient, scalable solutions across the full technology stack.

Experience

Software Engineer Sep 2022 – Aug 2025
Gustave Eiffel University *Bordeaux, France*

- Engaged in a 3-year work-study apprenticeship, working as a software engineer contributing to research projects in ERENA's team.
- Researched 5G telecommunications and autonomous vehicles; developed APIs and simulations in Python (Flask). **Link GitHub**
- Contributed to Green xG project by deploying a scalable cloud-native 6G platform on Kubernetes with monitoring energy consumption via Grafana. **Link GitHub**
- Developed the Accam Taxonomy website, a React.js (Next.js) application for creating, visualizing, and managing taxonomy files with an intuitive user interface. **Link GitHub** **Link website**

Research Intern Jun 2024 – Sep 2024
ETS Montreal *Montreal, Canada*

- Collaborated with professors and researchers; Deployed a 5G platform with physical and virtual users using Docker and srsRAN.
- Built ML models and Python xApps to detect and mitigate DDoS attacks by managing resource allocation. **Link research paper**

IT Intern May 2021 – July 2021
Event2Be *Paris, France*

- Developed a Python-based newsletter system and automated subscriber management; implemented SEO. **Link website**

Education

ESIEE Paris Paris, France
Diplôme d'ingénieur | MEng, Computer Science (Work-study program) *Sep 2022 – Aug 2025*

Universidad Publica de Navarra Pamplona, Spain
International Academic Exchange, Computer Science *Sep 2024 – Mar 2025*

Lycée Jean Jaurès Paris, France
BTS SNIR | Higher Technician Diploma, Computer Science *Sep 2020 – Jun 2022*

Lycée Les Pierres Vives Paris, France
Scientific High School Diploma *Sep 2017 – Jul 2020*

Skills

Programming Languages: Python, C, C++, C#, SQL, React.js, Go, Java, PHP, MATLAB, Bash, HTML, CSS

DevOps & Monitorting: Docker, Kubernetes, GitHub Actions, Traefik, Grafana, InfluxDB, PostgresDB

AI Frameworks: TensorFlow, PyTorch, Keras, N8N, Hugging Face

Soft Skills: Public Speaking, Technical Documentation, Team Collaboration, Problem-Solving, Adaptability

Languages

Italian	**French**	**English**	**Arabic**	**Spanish**
Native	*Native*	*Fluent*	*Fluent*	*Intermediate*

Certificates

Introduction to Software Engineering 2025
IBM *Link*

Getting Started with Git and GitHub 2025
IBM *Link*

Hands-on Introduction to Linux Commands and Shell Scripting 2025
IBM *Link*

Python for Data Science, AI & Development 2025
IBM *Link*

Django Application Development with SQL and Databases 2025
IBM *Link*

Developing AI Applications with Python and Flask 2025
IBM *Link*

Projects

Heurly Sep 2023 – Jun 2024
Social Media Project *Docker, Github Actions, Traefik, Typescript, React.JS, Trello*

- Collaborated in a team of 5 to develop Heurly; led DevOps efforts by designing and implementing a complete CI/CD pipeline from scratch on a VPS server, enabling automated testing, Docker image building, deployment, and load balancing.
- Optimized Docker build process by introducing caching mechanisms, **reducing image size from 2.1GB to 100MB** and **build time from 13 minutes to under 1 minute**, significantly accelerating development cycles and improving deployment efficiency.

Geometry Modeling Project Oct 2023 – Dec 2023
ESIEE Paris *C++*

- Developed a C++ geometry-modeling application gaining in-depth experience with the half-edge data structure.
- Engineered and unit-tested six core C++ mesh-processing modules—ReadFile, Triangulate, Simplification, ComputeNormals, Silhouette, and Catmull–Clark subdivision—achieving 100% pass rate across the automated test suite.
- Awarded a top score of **21/20** for exceptional implementation and understanding.

Events

Game Jam Sep 2023
Game Development Hackathon *Unity, C#*

- Developed a third-person labyrinth game in 48 hours, featuring multiple difficulty levels (Easy to Genius) **Link GitHub** **Link video**

European Hackathon Mar 2023
Ministry of Ecological Transition Hackathon

- Participated in a hackathon alongside individuals from across Europe.
- We were a team of four individuals, and we developed a prototype of a device designed to encourage children to use public transportation independently.

Publications

xApps for DDoS Attacks Detection and Mitigation in 5G-V2X O-RAN Networks Sep 2024
IEEE Research Publication

- Co-authored this research paper, contributing to the development and implementation of xApps for real-time DDoS detection and mitigation in 5G-V2X O-RAN networks. **DOI: 10.1109/CIoT63799.2024.10757133**