

Hajar Bousaken

Software Engineer Student

Looking for a PFE internship

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🌐 [Hajar Bousaken](#)

🌐 [Portfolio](#)

🐙 [GitHub](#)

Objective

I am a passionate final-year Computer Engineering student at ENSA Al Hoceima, eager to apply my skills and gain hands-on professional experience through a PFE internship. My academic journey and projects have equipped me with solid expertise in web development, data processing, and AI-driven solutions. I am highly motivated to join an innovative environment at the intersection of **AI, cloud computing, DevOps, and digital transformation**, with a particular interest in automation, scalability, and data flow optimization projects.

Experience

PFA Internship – Expense & Department Management App

4D Rabat, July – August 2025

Developed a full-stack web application for managing expenses and departments using React.js, TypeScript, and 4D. Designed a responsive interface, implemented backend services, and ensured smooth integration between front-end and back-end for an efficient user experience.

Education

State Engineer's Degree in Computer Engineering

2021 – Now

National School of Applied Science

Al-Hoceima, Morocco

Baccalaureate in Physical Sciences, with honors

2020 – 2021

High School Ibn Hani

Sale, Morocco

Technical Skills

Languages & Frameworks: C/C++, C#, Java, JavaScript, PHP, Python, .NET, Spring Boot, Spring Data, Spring Security, Unity

Web & Software Development: React.js, TypeScript, Flask, Odoo ERP, 4D

DevOps & Cloud: Docker, Kubernetes, CI/CD, Git, VMware, VirtualBox, AWS

Data Science & ML: NumPy, Scikit-learn, Pandas, Matplotlib, TensorFlow, OpenCV, Web Scraping, Naïve Bayes

Soft Skills: Attention to detail, prompt engineering, teamwork, and time management.

Projects

Collaborative Annotation Platform for NLP | *Spring Boot, Spring Data, Spring Security* : Developed a platform for labeling user intents and implementing quality checks to ensure accurate training data for NLP models.

Chatbot Real-Time App for Customer Service | *Java, JavaFX, MongoDB, Kafka, Zookeeper, NLP* : Built a real-time chatbot that classifies and answers customer queries using trained intent data to improve response accuracy.

Flower Image Search Engine | *Python, Flask, OpenCV, ResNet*: Created an image search engine using deep learning and image classification to enhance recognition accuracy.

Web Security Enhancement and Vulnerability Mitigation Project | OWASP ZAP : Performed vulnerability testing and implemented measures to strengthen web application security.

E-Service Website | HTML, CSS, JavaScript, PHP : Built a web app to manage users and roles within an academic system.

Labyrinth Game | C#, Unity : Developed an interactive 3D labyrinth game using Unity and C#.

Interests

- Problem-solving
- Web Development & AI
- Reading & Learning New Technologies

Languages

- French:** Advanced
- English:** Advanced
- Arabic:** Native

Certifications

- ALX Certification – AI Career Essentials
- SoloLearn Certification – Web Development | Coding for Data
- Pro Frontend Engineer ReactJS + TypeScript + Redux