


Mohsine Essat

Software FullStack Developer

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Currently studying **Computer Science at CESI engineering school**. I would like to join your company as an intern in order to enrich my skills and actively contribute to the technological development of your company. Driven by a deep interest in engineering and solving complex problems, I aspire to become an engineer. **Schedule: 1 week at school / 3 weeks at the company - January 2026 to June 2026**

EDUCATION

CESI School of Engineering, Associate Degree in Computer Science 07/2025 – Present | Reims

- Software development and architecture: Python, C#, Java, JavaScript (React), object-oriented programming (OOP), and design patterns.
- Databases: design, modeling, and optimization (SQL).
- Systems and networks: OSI model, IP addressing, administration, and security.
- Algorithms and optimization: design and performance improvement.
- Deployment and CI/CD: continuous integration, automation, and Docker.
- Project management and best practices: agile methodologies, Git/GitHub, technical and functional documentation.

Hong Kong University of Science and Technology, 02/2025 – 03/2025

Certification in Applied Mathematics for Engineering, online

- Supervised by Professor Jeffrey R. Chasnov
- Matrix operations: identity, inverse, orthogonal
 - Solving linear systems: row echelon form, LU decomposition
 - Vector spaces and subspaces
 - Gram-Schmidt method for orthonormalization
 - Calculating determinants and properties
 - Eigenvalues, eigenvectors, and diagonalization
 - MatLab

PROFESSIONAL EXPERIENCE

Freelance FullStack Developer, The Boesia Gallery 12/2024 – 01/2025

- Autonomous management of hosting and DNS configuration (A/CNAME).
- Integration of a headless CMS to automate content management via the REST API.
- Development of interactive 3D animations with Three.js/WebGL, with optimized code to resolve rendering and latency issues, ensuring smooth performance on all devices.

Fullstack Developer Intern, Wethenew 08/2024 – 08/2024 | Paris

- Introduction to FullStack development with Node.js (back-end) and TypeScript/React (front-end), including feature design, REST API integration, and implementation of CI/CD pipelines on AWS via GitLab, improving application stability, performance, and scalability.
- Collaboration in Agile/Scrum teams, including sprints, code reviews, and Git management, to ensure code quality, productivity, and fast delivery.

PROJECTS & HACKATHONS

NASA Space Apps Challenge 2025 (International Hackathon) 10/2025 – 10/2025

- Global hackathon organized by NASA, focused on the use of scientific and space data provided by partner agencies.
- Development of a software prototype using NASA/ESA datasets (satellite images, Earth observation, climate data) and advanced algorithms to solve scientific problems, in collaboration with an international and multidisciplinary team.

Personal Research project Present

- Development of an ML/NLP news corrector: The goal is to understand the entire NLP pipeline by designing the model from scratch using Python, Scikit-learn, Pandas, NumPy, Jupyter, and Hugging Face Transformers.
- Improve performance by integrating pre-trained models (BERT, RoBERTa) with traditional ML algorithms.
- Use data to train and test the model (LIAR, FakeNewsNet).
- Document and analyze all choices and experiments.

NeoWatch - Asteroid Tracker 08/2025 – 08/2025

With a strong interest in scientific data analysis and modeling, I developed an end-to-end web application that allows users to visualize and analyze near-Earth asteroids in real time over a selected period using data from NASA's public API. Technologies used: Python, Streamlit, Matplotlib, Pandas, NASA NeoWs API.

SKILLS

Programming languages: C#, C, Java, Python, SQL, **Web development:** React, JavaScript, TypeScript, **Tools and software:** Postman, MatLab, Git, Shell, Bash, **Networks:** Modèle OSI, TCP/IP, **Soft skills:** Curiosity, versatility, rigor, organization

ORGANIZATIONS

Latitudes, Volunteer 06/2025 – Present | Paris, Reims

- Raising awareness among middle and high school students about careers, challenges, and societal impacts of artificial intelligence.

LANGUAGES

French: Native C2 | **English:** B2, TOEIC 780 | **Arabe:** B1 | **Mandarin:** A2