

# HALIM MOUAZIZ

## SOFTWARE ENGINEER

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### PROFILE

I am passionate about software engineering, particularly for its problem-solving capabilities and the efficiency it brings to complex systems. My focus is on backend development, valuing system functionality over appearance. My interest in space and aerospace, fueled by a childhood of LEGO and video games, drives my ambition to contribute to these innovative fields. Software engineering, to me, is about building the foundations for future exploration and innovation. I aim to use my skills to impact the aerospace and space sectors significantly, merging my technical expertise with my lifelong interests to explore new frontiers.

### PROJECTS

#### KERBAL SPACE PROGRAM MISSION PLANNER

Full Stack Developer  
Mar 2024 - Present

Developed a dockerized web application aimed at learning web development and building a tool for my Kerbal Space Program RP-1 playthrough. Implemented features for mission planning, orbit eclipse calculator, and 3D trajectory visualization.

Technologies Used: React, three.js, Node.js, Express, MySQL, Redis, Docker, Terraform

#### OCTOTECH

Lead Software Engineer  
Feb 2024

Led a team in a 24-hour hackathon to create a demo addressing the challenge: "How can we encourage customers to leverage abundant, affordable green energy while avoiding pricey fossil fuels?" Delivered a prototype that optimized energy usage based on data provided by the data science team.

Technologies Used: HTML, SCSS, JavaScript

#### WINDOWS HARDWARE MONITOR

Developer  
Jan 2024 - Present

Developed a function to retrieve hardware information from the Windows Management Instrumentation (WMI), aiming to create a program combining features of Task Manager and CPU-Z.

Technologies Used: C++

#### COMMAND BLADE

Developer  
Nov 2022 - Dec 2022

Created a modular command-line interface (CLI) application in Python designed to perform various tasks. The application's modular architecture allows for easy addition of new features, enhancing its functionality and adaptability.

Technology Used: Python

### EDUCATION

#### BRAINSTATION - LONDON, ENGLAND

Diploma in Software Engineering  
Jan 2024 - Apr 2024

- Completed an intensive 3-month program focused on full-stack web development.
- Developed proficiency in JavaScript, Node.js, React, Express, and modern web development practices.
- Completed a capstone project where I developed a fully functional web application, integrating front-end and back-end technologies.
- Earned a Diploma in Software Engineering, demonstrating advanced skills in software development and problem-solving.

#### LYCEE FRANCAIS CHARLES DE GAULLE - LONDON, ENGLAND

Secondary Education  
2004 - 2015

- Attended secondary education with a focus on mathematics, science, French, and English.

### EXPERIENCE

#### EZEE COMMUNICATIONZ LIMITED

IT Service Technician - Apprenticeship Preparation Program  
Feb 2022 - Sep 2022

- Studied for COMPTIA A+
- Studied for COMPTIA Security+
- Studied for CEH

#### AVIAN HOLDINGS LIMITED

Backend Security Engineer  
Aug 2021 - Feb 2022

- Performed various security checks, scans, and audits of Avian's entire system.
- Developed a tool for testing proxy server response time.
- Developed a system that made Salesforce product currency conversions correct and up to date across the entire application.

#### SELF-EMPLOYED AT EUROPEAN EDUCATION CENTRE

IT Systems Technician  
Sep 2017 - Jun 2021

- Developed a database for the collection of compliance testing data.
- Managed and deployed PC images in a university campus environment.
- Provided hardware and software troubleshooting.

### SKILLS

JavaScript	React	MySQL	JetBrains IDEs	RESTful API
HTML5/CSS	Node	MongoDB	VSCode	Agile methodologies
Python 3.12	Express	Redis	Git	Functional Programming
C++	Tailwind CSS	Prisma ORM	Jira	Object-Oriented Programming