

# Seifeldin Mahmoud

## Software Engineer

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### ABOUT

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I'm a Software Engineer with strong backend and ML skills. Experienced in deploying full stack applications to cloud platforms and developing ML models. 3<sup>rd</sup> year student, able to balance academic and professional commitments alike.

### EDUCATION

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#### AL AIN UNIVERSITY

##### Bachelor of Science in Software Engineering

ABU DHABI - UAE

2023-PRESENT

- Honor's list, 3.8 GPA
- Completed 63 credit hours, expected graduation by 2027

### EXPERIENCE

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#### SMART NAVIGATION SYSTEMS

UAE

##### Intern Software Engineer - Co-creator and lead developer of [Himaya71](#)

MAY 2025-Present

- Spearheaded the end-to-end development of the Himaya71 emergency response platform, from initial concept to a live, functional application, achieving 3<sup>rd</sup> place at the I2P competition hosted by UAEU SIP
- Single-handedly developed the application's core infrastructure, building the interactive front-end dashboard with React and TypeScript and engineering the back-end services with Django
- Deployed both the front-end and back-end systems to production on Vercel and Railway respectively, enabling a live dashboard connection to visualize data, issues alerts, and provide call to actions from any online device
- Integrated a computer vision model & IoT sensors into the back-end to automate mission critical alerts

### PROJECTS

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#### AI CV Generator ([cvmaker](#)) – Sole developer

- Developed and deployed a web application enabling users to generate personalized CVs and cover letters instantly using Google Gemini 2.5 Flash, Next.js, React, Tailwind CSS, and deployed on Vercel
- Security features include comprehensive input validation and sanitization (Zod, XSS protection), robust rate limiting, advanced prompt injection protection. Fully private and stateless, Storing zero user data

#### GCare - Predictive Maintenance Platform - Team member

- Co-developed, validated and tested a predictive diagnostics platform as part of the Gargash Hackathon 2025
- Designed Django REST APIs to collect live data from OBD-II sensors, connected them with our ML pipeline (scikit-learn & Meta's Llama) and presented real world insights to consumers to gather user feedback

#### Biometric Identification for Cats – Team member

- Co-developed a cat facial recognition model at TAMMATHON 2025 under a high-pressure environment
- Leveraged a pre-trained ResNet50 for feature extraction, applied dimensionality reduction (PCA/ICA/LDA), and indexed embeddings with FAISS; implemented k-nearest neighbor search and vertical scaling parallelism to deliver a functional prototype within strict time constraints

#### Personal Automations

- Created automated workflows on N8N, hosted on a local Ubuntu server to gather data analytics and provide actionable insights on my deployed projects, delivered directly via discord/slack push notifications
- Built a OneDrive alternative using bash scripts and Git, enabling efficient file syncing and management of large files across devices by leveraging Git's version control and storage optimization

### SKILLS

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- Languages: Python, Java, JavaScript, TypeScript, CSS, HTML, bash
- Frameworks: Django, Node.js, Next.js, React, React Native, Tailwind CSS
- AI/ML: Pandas, Numpy, Scikit-learn, PyTorch, OpenAI, OpenCV, FAISS
- DevOps/Deployment: CI/CD, Cloud Computing, SQL, Django ORM, Docker, GIT, n8n, API design

### CERTIFICATIONS

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DeepLearning.ai & Stanford - Supervised Machine Learning: Regression and Classification

July 2025

HarvardX CS50AI – Introduction to Artificial Intelligence

July 2025