

Sohila Alnahas

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SUMMARY

Driven Software Engineering graduate with hands-on experience developing full-stack web applications, database systems, object-oriented software, and AI solutions. Known for strong team collaboration, problem-solving, and project management skills, with a passion for delivering high-quality, user-friendly applications.

EDUCATION

Arab Academy for Science, Technology and Maritime Transport (AASTMT)

Sep 2022 – Jul 2026

Bachelor of Science in Software Engineering

Cairo, Egypt

• **Relevant Coursework:** Machine Learning, Data Structures, Algorithms, Computer Vision, Data Visualization, Model Deployment, Web Deployment

EXPERIENCE & ACADEMIC DEVELOPMENT

Freelance / Academic Developer – Multiple Projects

Sep 2022 – Jul 2026

Remote / AASTMT

Cairo, Egypt

- Collaborated with cross-functional teams to deliver 10+ projects, including AI-powered solutions, ensuring timely project delivery.
- Optimized project workflows, reducing development cycles and overall time by 20%.
- Developed a real-time Sign Language Recognition system using Python, TensorFlow, and OpenCV.
- Built a QR Cart Shopping System and a Health Center Database using R and Oracle LiveSQL.
- Created full-stack web platforms like HMK Charity Website and a Job Hiring App using PHP, MySQL, HTML, CSS, and JavaScript.
- Designed and implemented a GUI-based Classical Encryption Toolkit in Python using CustomTkinter.
- Built a Disease Surveillance and Control App using Java and OOP for healthcare data tracking and visualization.

PROJECTS

EchoSense - Assistive AI for Independent Navigation & Well-being

Sep 2025 – Jun 2026

BSc Graduation Project Team of 6 (echosense.org)

Figma, UI/UX, Data Annotation, iOS

- Contributed to a privacy-first, fully on-device assistive AI platform for visually impaired and autistic users.
- Designed the UI/UX of the Companion iOS/Apple Watch app for autistic users and caregivers, from user research and wireframes to high-fidelity prototypes.
- Performed data annotation and preparation of training data to support the on-device ML models powering the platform.
- Co-authored the 100-page graduation thesis, assisting with technical writing, results analysis, and documentation.

API Security Testing & Vulnerability Assessment

Apr 2026 – May 2026

Software Security

Postman, OWASP Juice Shop, SQL Injection

- Executed API testing scenarios and simulated security vulnerabilities, including SQL injection and brute force attacks.
- Documented API endpoints, test cases, and vulnerability mitigations for robust software security.

QR Cart Shopping System

Apr 2025 – May 2025

Retail Automation

R, Oracle LiveSQL

- Developed a QR-based cart management system for smart retail automation.
- Integrated Oracle LiveSQL to manage transaction data, reducing manual data entry errors by 30%.

Tidy Task Management Application

Feb 2026 – Apr 2026

UI/UX & Mobile Layouts

Figma, Flutter, Information Architecture

- Led UX deliverables including problem statements, empathy maps, and information architecture.
- Developed comprehensive user flows, impact-effort matrices, and storyboard frameworks while designing Flutter interface layouts.

HomeArt Furniture App Prototype

UI/UX Design & Prototyping

Feb 2025 – Apr 2025

Figma, User Research, Wireframing

- Designed an interactive prototype for a furniture retail app, focusing on user experience and seamless navigation.
- Conducted user research to inform design decisions, creating wireframes and user flows for key features.

Website Selenium Testing Project

Web Automation Testing

Feb 2025 – Mar 2025

Python, Selenium, PyTest, HTML, CSS

- Developed and executed a test suite using Selenium and Python to automate testing of website features.
- Implemented PyTest framework to organize and run tests, generating detailed reports on test outcomes.

ICTHub Platform Landing Page Redesign

Web Interface Design

Jan 2026 – Feb 2026

Figma, Visual Hierarchy

- Explored and redesigned the landing page focusing on visual hierarchy and effective service categorization.
- Created layout sketches and organized service offerings to enhance the user journey.

Symptomly Mobile App

Health Tech, Mobile Development

Sep 2024 – Oct 2024

Android (Kotlin), Flutter

- Created an Android app that suggests home remedies based on symptom input using rule-based logic.
- Delivered clean UI/UX for users to track and manage common ailments.

InternLink Internship Website

Full-Stack Web Development

Feb 2024 – Mar 2024

HTML, CSS, JavaScript, PHP, MySQL

- Created a donation platform with live database interaction and secure CRUD operations.
- Delivered a responsive user interface and back-end logic.

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, PHP, JavaScript, HTML/CSS, SQL, Kotlin, R, JSP, Servlets, JavaBeans

Machine Learning & AI: TensorFlow, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib

Design & Dev Tools: Git, GitHub, Figma, CustomTkinter, Postman

Web/Mobile: Flutter, Android

Databases: MySQL, Oracle LiveSQL

CERTIFICATIONS

- UI/UX Camp – ICT Hub, Egypt
- Software Development (DevOps Engineer) – Digital Egypt Pioneers Initiative (DEPI)

LANGUAGES

Arabic: Native | **English:** Fluent (Professional)