

# MAHMOOD GNEAM

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## EDUCATION

### Sami Shamoon College of Engineering

Be'er Sheva, Israel

B.S. Software Engineering

Expected Graduation: June 2026

- Key Courses: Object-Oriented Programming, Data Structures & Algorithms, Computer Architecture, Operating Systems.

## SKILLS

**Programming Languages:** Java , Python , JavaScript , C/C++ , C#

**Back-End Technologies:** Spring Boot, Node.js, ASP.NET, Django, REST APIs, Microservices

**Tools & Technologies:** Docker, Kubernetes, Jenkins, Kafka, Git/GitHub, Azure, OpenCV

**Frameworks & Libraries:** TensorFlow, PyTorch, OpenAI GPT, YOLO , OpenCV, Scikit-learn

**Database Management:** MySQL, MongoDB, In-Memory Database

**System Architecture:** API design, system scaling, performance optimization, security enhancement

## PROJECTS

### AlertHub System: Microservices for Real-time Data Processing | *Spring Boot, MySQL, Kafka, Docker* October 2024

- Orchestrated the development of a scalable microservices architecture to boost real-time data processing capabilities and system reliability.
- Engineered message streaming with Kafka, implemented Docker for containerization, and utilized Jenkins for continuous integration to streamline deployment cycles.
- Enhanced API efficiency with OpenFeign to improve responsiveness and fault tolerance of the system.

### Jarvis AI System with Hand Gesture Control | *Python, OpenCV, AI Integration*

August 2024

- Developed an AI-driven interface facilitating enhanced digital interaction via voice and hand gesture controls.
- Optimized data processing backends to achieve sub-100ms response times and enhance gesture recognition accuracy.

### Customer-Invoice CRM System | *C#, ASP.NET, Angular*

June 2024

- Directed the build of a comprehensive CRM system, focusing on robust backend data management and user interaction enhancements.
- Fortified system security and optimized performance to ensure reliable, responsive user experiences.

## EXPERIENCE

### Mentor - Software Engineering Tutoring Program

Year-Round 2024-2025

Siraj NGO

- Mentored 2nd-year software engineering students, providing guidance on academic concepts and practical coding skills.
- Improved students' problem-solving abilities by sharing real-world development experiences and methodologies.
- Fostered a collaborative learning environment, encouraging peer discussions and hands-on project development.

## OPEN SOURCE CONTRIBUTIONS

### Prefect - Open Source Workflow Orchestration

February 2025

Contributor

- Implemented **retry logic for job creation** in **Google Cloud Run workers**, improving reliability and reducing transient failures.
- Fixed critical issues related to **fault-tolerant workflows**, ensuring job execution consistency in Prefect's cloud infrastructure.
- Passed rigorous **pre-commit hooks, unit tests, and code reviews** to ensure high-quality contribution standards.
- Engaged with the open-source community, discussing PR feedback and refining the implementation based on maintainer reviews.