Samer Arkab – B.Sc. Software Engineer

Email: SamrR93@gmail.com
LinkedIn: **Profile**   GitHub: **Repositories**   Personal Website: **Samer Arkab**

I'm a B.Sc. Software Engineering graduate with a GPA of 84, skilled in Python, Java, and key DevOps tools like Docker, Kubernetes, Jenkins, AWS, and Git. My academic experience has equipped me with expertise in Backend development, covering data structures, databases, frameworks such as Flask, and tools like Maven.

Skills

- **Programming Languages:** Python, Java, Bash, C
- **Databases:** MySQL, MongoDB
- **Technology Stack and Tools:** CI/CD (Jenkins), Kubernetes, Containerization (Docker), Amazon Web Services, Linux, Git, Terraform, REST APIs (Flask, FastAPI)

Military Service

2011 – 2015: **Advanced role in signal traffic analysis, Intelligence Corps - Unit 8200**

- Worked extensively with cutting-edge technologies in signal traffic and data analysis, providing key insights and actionable information.
- Worked both independently and collaboratively, demonstrating adaptability and teamwork.
- Received a certificate of excellence for significant contributions to Unit 8200.

Education

2018 – June 2023: B.Sc. Software Engineer, Braude Academic College of Engineering (GPA: 84)

- Dell Technologies Mentorship Scholarship (Jan – Jun 2023):
    - Selected for a prestigious mentorship scholarship at Dell Technologies.
    - Mentored by a Senior Software Engineer, gaining in-depth knowledge in software development techniques and methodologies.
- Final Project – Calculate Nutritional Values from Food Portions (GitHub):
    - Implemented food recognition using **TensorFlow**, **InceptionV3**, and **Mask R-CNN** in **Python** for precise segmentation and volume estimation. Used **Git** as the version control system.
    - Trained models efficiently on **Amazon's SageMaker Studio Lab** and deployed with **Docker** and **Kubernetes** on **Google Cloud Platform**.
    - Developed a web application for user interactions with **Node.js**, **Express**, and **React.js**.
    - Integrated a nutritional **API** for consistent fetching and display.
- Computerized Examination Management System (CEMS) Project (GitHub):
    - Developed a robust client-server examination system in **Java**, utilizing **JavaFX** for the graphical interface, **MySQL** for database management and **Git** as the version control system.
    - Implemented advanced features through multithreading, adhering to **UML** specifications and applying **Test-Driven Development (TDD)** methodologies.
    - Enhanced project efficiency with continuous integration using **Jenkins** and streamlined deployment with **Docker**.
    - Strengthened skills in teamwork, project management, and software best practices.

Volunteer Experience

2019 – 2022: "Perach" Program

- Tutor to college students in **Data Structures**, **Intro to CS (C language)**, and **Data Mining & Machine Learning** until June 2022.

2009 – 2011: Aharai!

- Volunteer in Aharai organization in Isifya, helping and contributing back to the community.