Samer Arkab – B.Sc. Software Engineer

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LinkedIn: LinkedIn Profile   **GitHub**: GitHub Repositories   **Personal Website:** Samer Arkab

Skills

- Java, JavaScript, Python, C, Bash, SQL (MySQL)
- REST API, Containerization (Docker), Flask, Google Cloud Platform, Kubernetes (GKE), Git, Node.js, ReactJS, OOP, Design Patterns, Linux

Education

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

- **Final Project – Calculate Nutritional Values according to portion of food in plate** (GitHub)**:** Trained InceptionV3-based image recognition model and implemented a volume estimation model using Python, with a segmentation process utilizing Mask R-CNN. Integrated an API for nutritional values retrieval. Deployed models within Docker containers, managed with Kubernetes on Google Cloud Platform. Used Amazon's SageMaker Studio Lab for model training. Developed a user-friendly web application with Node.js, Express, and React.js to make models accessible and usable.
- **Computerized Examination Management System Project** (GitHub)**:** Developed a comprehensive client-server system for managing exams using Java and MySQL, and employing technologies like multithreading, UML, TDD, and JavaFX. Developed skills in collaboration, project management, and software development best practices.
- **Dell Technologies Mentorship Scholarship (Jan – Jun 2023)** - Mentored by a Senior Software Engineer, gaining in-depth knowledge in software development techniques and methodologies.

Military Service:

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

- I was awarded a certificate of excellence for my contribution to the work of unit 8200.
- My military service required me to extract, analyze and process information using a combination of intelligence and technological skills. This experience helped me to develop strong problem-solving skills and a keen attention to detail, which I have carried forward into my professional career.

Work Experience

2016 – 2017: **Web Intelligence Analyst, Terrogence – Netanya**

- I worked on a long-term data analysis project in collaboration with the coordinator of Israeli government activities. Our team gathered and analyzed data to provide insights and recommendations to support project goals. I also worked on a separate project focused on fraud detection, where I honed my skills in data analysis and interpretation while working independently and as part of a team.

Volunteer Experience

2019 – 2022: **"Perach" Program**

- Tutor to an elementary-school pupil until 2020.
- 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.

Languages:

- English – full professional proficiency
- Hebrew – native proficiency
- Arabic – native proficiency