Afik Aharon

SOFTWARE DEVELOPER

Software developer with 3 years of backend experience (Mainframe) and a 3rd-year CS student passionate about modern technologies (Python, JS, Java). A proven problem-solver and fast independent learner seeking a student position to contribute and grow.

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Education

Computer science student at HIT Holon   **2023 - present**
- Completed coursework in Computer Networks, Algorithms, Advanced Programming in C, and more.
- Developed strong problem-solving and optimization skills through algorithmic challenges
- Hands-on experience with low-level programming, memory management, and software development.

Projects

Supervised Learning Project – Regression Model for House Price Prediction | python | link
- Built and tuned regression models using Scikit-learn and GridSearchCV to predict house prices.
- Performed data preprocessing, feature engineering, and exploratory analysis with Pandas, Seaborn, and Matplotlib.
- Achieved an R^2 of 0.65 on test data, demonstrating solid predictive performance on a complex, real-world dataset.

Intelligent Robotic Arm for Color-Based Object Sorting | link

- Integrated Arduino and ESP32 microcontrollers with the Seeed Grove Vision AI module for real-time color detection and motion control.
- Built a React web interface enabling manual servo control, calibration, and live system monitoring.
- Implemented dual operation modes:
  Automatic mode – detects object color and performs pick-and-place actions into color bins.
  Manual mode – allows remote servo manipulation and preset motion execution.

Work Experience

Mainframe backend developer at the IDF   **2020 - 2023**
- Developed and maintained critical backend systems in an IBM Mainframe environment.
- Translated complex business requirements (e.g., new wage policies) into technical specifications and code.
- Led end-to-end debugging processes, from identifying complex malfunctions to providing direct user support.
- Collaborated with teams and stakeholders to define product requirements and implement solutions.
- Mentored and trained new developers, onboarding them onto development protocols, system architecture, and workflows.

Technical Skills
- **Languages** : JavaScript, HTML/CSS, C/C++, Python, SQL, Java
- **Frameworks & Libraries**: Node.js, React
- **Hardware & Other:** Arduino, ESP32, IBM Mainframe, Seeed Grove Vision AI

Languages
- **Hebrew** – native
- **English** - Professional working proficiency