ADAM MELAMED

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EDUCATION:

University of Maryland CP (Senior) – GPA: 3.71 August 2021 - December 2024 (College Park, MD)

- Bachelor of Science in Computer Science (Machine Learning track) along with a Minor in Sociology
- Presidents Scholarship Recipient, Dean List Member across multiple years
- Relevant Coursework: Object Oriented Programming, Algorithms, Discrete Math, Data Science, Web Application Development, Advanced Data Structures, Artificial Intelligence, Machine Learning, Computer Vision, App Development, Data Visualization, Network Security, Smart Machines in Sociology

Tesla STEM High School Graduate – GPA: 3.96 Sept. 2017 – June 2021 (Redmond, WA)

- Top ten high school in the nation, and perfect A+ in four years of computer science classes

SKILLS:

Proficient In: C#/C++, Java, Python, SQL, HTML, JS, Kotlin, Pytorch **Familiar With:** Ocaml, Rust, Ruby, Angular, Flutter

Other Skills: Excel, Github, Linux/Unix, AWS, Visual Studio Code, AI/ML Models, Postman, Eclipse, Pandas, TensorFlow

EXPERIENCE:

MIG Summer Internship (*Summer Development Intern)* Summer 2022 and Summer 2023 (Haifa)

- Used SQL, Java and AngularJS to develop a web service that manages the lifecycle of fish farms.
- Worked with the company architect to redesign the databases in SQL, the application logic in Java the Spring-boot Framework, and the pipelines that feed the information into the web service.
- Achieved in progressing the development of the website and getting it ready and updated for public launch, as well as reworking the entire system underneath to better suit a rapidly growing company.
- More of a backend and database developer, however I did significant work with the frontend developers

Agent Factory Summer Internship *(Full Stack Intern)* Summer 2024 (Tel Aviv)

- Worked in three phases from end-to-end, which were video capture and transfer, detection with major artificial intelligence models, and user interface in order to run object detection on user input videos.
- Detection with artificial intelligence was done in python and utilized popular machine learning detection models like TensorFlow and open-source computer vision to detect objects in images.
- Combined with Dahua cameras and Dahua network video recorders for large scale video capture and object detection in an efficient matter in order to help a diverse array of users.

University Software Development

- **Restaurant Website:** Used languages and principles based on JavaScript, HTML, Node and MongoDB in order to design and apply a website for a local restaurant.
- **NFA to DFA Project:** Used Ocaml to follow the transition from an NFA to a DFA.
- **Ournix Project**: Used C, Unix and Linux to design a system that operates like a modern file explorer.
- **Bus Project:** Used Java and Object-Oriented design principles to follow the passengers in a bus system.
- **Reinforced Learning Research Project:** Worked with a team to investigate how a robot can self-explain object movement using the data gathered through large vision language models like dal-e-bot.

Personal Projects in Software Development

CS Summer Teacher Donation Website Jetpack Joyride and Tetris Move Picker App Resume Website