**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