

Ilham Mukati

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EDUCATION

University of Central Florida | Computer Science, B.S | GPA: 3.4/4.0

Expected Dec 2024

SKILLS

Python, Java, React, C/C++, PHP, MongoDB, SQL, Typescript, HTML, CSS, Git, Docker, Postman, Adobe Analytics

EXPERIENCE

Lockheed Martin

Oct 2023-May 2024

Software Engineer Extern – Geospatial Intelligence Team

- Created Geospatial Intelligence Application which [detects objects in images using Llava](#), PyQt6, and Flask Tile Server.
- Wrote detailed test cases which [improved Llava Model performance by 34%](#).
- Created GUI in PyQt6 and [integrated it with custom Llava model](#) using replicate.

Ace Applications

Sep 2023-Dec 2023

Software Engineer Intern

- Writing [new software applications](#), creating new websites in JavaScript and refactoring previous code.
- Developing and maintaining [mobile, web, and desktop applications in IOS and Android](#) environments.
- Conducting research on various technologies and documenting findings on Docusaurus and WordPress.

American Express (Phoenix, AZ)

Jun 2023 - Aug 2023

Software Engineer Intern

- Improved usability of client-facing flows for handicapped customers by [writing pixel-perfect React / CSS code](#).
- Built end to end user-facing flows in React for AMEX Money Management team, [verified through rigorous testing](#).
- Refactored backend code to reduce [redundant API calls and decrease runtime](#) for Wire and ACH transfers.
- Created a mock data generator, [allowing for the discovery of new bugs across 20+ internal APIs](#).(fulltime offer received)

Darden (Phoenix, AZ)

May 2022 - Jul 2022

Software Engineer Intern

- Developed [dashboard to display statistics of user interactions](#) with sites for brands such as Olive Garden, LongHorn, etc.
- Wrote test cases to [improve code coverage to 95%](#) for restaurant online orders.
- [Phased out and replaced API's](#) which were sending inaccurate information, improving client site experience.

PROJECTS

AI Harmful Content Moderator

Aug 2023 - Present

- Implemented a program to [find hate speech](#) when given a snippet of text.
- Used Python, AI/Machine Learning, and natural tool kit for best practices.

Universal USB Control

Aug 2023 - Present

- Implemented an app to emulate mouse/keyboard, and media commands from [phone onto any USB-capable device](#).
- Developed [software for a microcontroller](#) capable of BLE and USB communications emulating human input devices.
- Integrated chip to communicate with mobile App built with React Native utilizing Bluetooth to command devices.

Pathfinding Visualizer

Feb 2023 - Mar 2023

- Developed an interactive interface using React allowing the user to choose start and end points for visualization.
- Leveraged Dijkstra's algorithm to [find the shortest path between nodes in a graph](#) $O(E \log V)$ time.

Superhero Correspondence

Jan 2023 - Jan 2023

- Facial recognition web app which determines which Marvel superhero the user most resembles.
- Leveraged OpenCV library with multiple cascades for increased accuracy in facial recognition.

Scraggle Hybrid

May 2022 - Jul 2022

- Constructed a hybrid of Scrabble and Boggle in Java using custom libraries to insert various user-friendly features.
- Utilized Tries to [reduce runtime complexity](#) from $O(m^3)$ to $O(m \cdot \text{word length})$.

Automate Curbside Processing

Jun 2022 - Jun 2022

- Used queues which [lead to wait time improvements of 85% on average](#) and allowed more customers to be processed.
- Created a simulated grocery store in C which calculates most optimal pickup timings to reduce consumer delays.

EXTRACURRICULARS

Knight Hacks - engage in hack-a-thons (such as Shell Hacks), weekly coding collaborations, and project brainstorming.

Society of Professional Hispanic Engineers - involved in project collaborations and networking events.

Peer Tutoring - Assist Computer Science students in projects and taught new data structures and algorithms.