

# 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, PHP, SQL, React.js, C, HTML, CSS, Javascript, Git, Github, MongoDB, PowerBI, Adobe Analytics

## EXPERIENCE

### Software Engineer Intern- American Express (Phoenix, AZ)

June 2023-August 2023

- Proactively improved user experience by aligning customer-facing features with design vision and accessibility requirements through resolving bugs and discrepancies.
- Implemented multiple components and APIs for money transfer site for optimized performance
- Instructive and thorough creation of 'README' files for multiple modules

### Software Engineer Intern - Darden (Orlando, FL)

May 2022-July 2022

- Developed dashboard to display aggregate statistics of user interactions for brands such as Olive Garden, LongHorn and others.
- Automated data cleaning from API response, wrote test cases to improve coverage by over 70%
- Created a screen scrape API to fix inaccuracies between different web-server backend information, improved accuracy to 100%

## PROJECTS

### Pathfinding Visualizer

September 2021

- Developed an interactive and user friend interface on which the user can choose where to start and where to finish and the program created using React produces a path between the two points.
- Leveraged Dijkstra's algorithm to find the shortest path between nodes in a graph  $O(E \log V)$  time

### SuperHero Correspondence

August 2021

- Facial recognition Desktop app in Python which determines which marvel superhero the user most resembles
- Implemented OpenCV library for computer vision with multiple cascades for increased accuracy.

### Automated Curbside Processing

July 2021

- Created Queue System for a simulated grocery store in C, stored related information to calculate most optimal pickup timings and reduce delays on consumer's end
- Lead to wait time improvements of 85% on average and allowed more customers to be processed, increasing simulated profits
- Reduced runtime complexity from  $O(n^4)$  to  $O(n^2)$  through efficient data structure usage

### Scrabble/Boggle Hybrid

June 2021

- Constructed a hybrid of the two classic games 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  $O(m)$ . ( $m$  = length of word)

## RELATED COURSEWORK

Data Structures and Algorithms I & II

Artificial Intelligence

Cryptography and Information Security

Systems Software

Algorithms for Machine Learning

Computer Logic and Organization

Object Oriented Programming

Programming Languages

Processes of Object Oriented Software

## EXTRACURRICULARS

**Knight Hacks** - engage in hack-a-thons, weekly coding collaborations, project brainstorm, and resume edits.

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

**Peer Tutoring** - Assist Computer Science I & II students in projects, and learning new data structures and algorithms