

# Daniel Ramirez

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## EDUCATION

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**University of Central Florida** (3.5 GPA)

*Bachelor of Science in Computer Science*

Orlando, FL

May 2027

**Honors and Awards:** Florida Bright Futures Academic Scholar, Top 10 Knights, Dean's List (2 semesters)

**Activities:** Knight Hacks, Society of Hispanic Professional Engineers (SHPE)

## EXPERIENCE

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**Headstarter AI**

*Software Engineering Fellow*

July 2024 - September 2024

*Remote*

- Developed a **responsive** personal portfolio website using **JavaScript** and **Bootstrap** to showcase projects and technical skills
- Networked with peers and industry professionals through virtual meetups to gain valuable insights in the tech field
- Participated in weekly peer led discussions and workshops to further expand knowledge in AI and software engineering

**Mister Car Wash**

*Guest Service Specialist*

June 2023 - Present

*Orlando, FL*

- Provide clear, concise **technical guidance** to enhance customer understanding and overall experience
- Efficiently multitask in a **fast paced environment** to ensure smooth, efficient operations for **100+ vehicles** per hour
- Collaborate with team members to **optimize workflows**, improving service quality and workplace organization

## PROJECTS

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**WikiParty** | *Python, PyQt5, Wikipedia API*

*October 2024*

- Worked with a team to develop the **front-end** for a multiplayer game where players race through Wikipedia pages via hyperlinks
- Leveraged **PyQt** to design an engaging landing page and win/loss screens, incorporating interactive, dynamic **UI elements**
- Designed the UI to display real time mouse click stats and synchronized timers, allowing players to easily track their progress
- Contributed to creating a dynamic timer that shifts from green to red, providing users a clear visual indicator of remaining time

**Smart City Traffic Assistant** | *Python, Flask, OpenAI API, TomTom API*

*September 2024*

- Utilized **Flask** to develop a web interface, handling user inputs and efficiently managing API requests for traffic data
- Leveraged TomTom API to fetch live traffic data, **improving route accuracy by 25%** compared to standard navigation systems
- Integrated **OpenAI API** to generate real time, context aware traffic route suggestions using GPT-4 for optimized route planning

**Rankings Parser Tool** | *HTML, CSS, JavaScript, Tesseract*

*September 2024*

- Automated leaderboard data extraction for game server staff, **reducing data transfer time by 95%**
- Leveraged Tesseract.js to accurately capture and process leaderboard rankings and monetary values from in game screenshots
- Optimized image preprocessing with contrast adjustments, **improving OCR accuracy by 30%** for faster, reliable data capture

**AI Image Classifier** | *Flask, TensorFlow, MobileNetV2*

*August 2024*

- Implemented MobileNetV2 neural model to efficiently classify images and deliver predictions based on user uploads
- Applied **TensorFlow** for **image preprocessing** and **model inference** to achieve accurate classification results
- Configured confidence scores with corresponding classifications, providing clearer insights into **prediction reliability** for users

**Ticket Queue Simulation** | *C*

*February 2024*

- Developed a queue management system using a **linked list** data structure to minimize operational latency
- Improved processing **efficiency by 45%** with **O(1)** enqueue and dequeue operations over traditional array based methods
- Managed **dynamic memory deallocation** to prevent leaks and **optimize** resource utilization throughout the simulation

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, C, HTML, CSS

**Frameworks & Tools:** Flask, Bootstrap, Git, GitHub