Daniel Ramirez

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EDUCATION

University of Central Florida   Orlando, FL
Bachelor of Science in Computer Science   *May 2027*

EXPERIENCE

Software Engineer   February 2025 - Present
KnightHacks   *Orlando, FL*

- Collaborated with a team of 8 developers to build a hackathon website **serving 1500+ students** and **10+ company sponsors**.
- Extended **Zod schemas** with custom logic to validate user input including file type, size, and URLs, improving data integrity.
- Integrated a **base64 file conversion** system with FileReader to enable secure resume uploads through the registration form.
- Connected frontend form submission to a **type-safe backend** using **tRPC mutations** to streamline data flow and error handling.

Software Engineering Fellow   July 2024 - September 2024
Headstarter AI   *Remote*

- Developed a **responsive** personal portfolio website using **JavaScript** and **Bootstrap** to showcase projects and technical skills.
- Engaged in peer-led workshops to strengthen knowledge of software engineering practices, workflows, and industry tools.

Guest Service Specialist   June 2023 - Present
Mister Car Wash   *Orlando, FL*

- 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

Code Connections | *HTML, CSS, JavaScript, React, Firebase*   *January 2025*

- Led **back-end** development, implementing **Firebase authentication** for secure login, registration, and session management.
- Optimized **session persistence** to maintain user authentication state across page reloads, improving login reliability.
- Implemented dynamic form validation, enforcing username length, valid email domains, and password complexity.
- Developed role based access controls to ensure that only **authenticated users** can edit profiles, create posts, and manage content.

IntelliRoute AI | *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.

Leaderboard Parser Tool | *HTML, CSS, JavaScript, Tesseract OCR*   *August 2024*

- Optimized image preprocessing with contrast adjustments, **improving OCR accuracy by 30%** for faster, reliable data capture.
- Automated leaderboard extraction with Tesseract.js to capture rankings and values, **reducing data transfer time by 95%**.
- Implemented **regex parsing** to isolate rankings, team names, and values, increasing post-processing accuracy and consistency.

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

Languages: JavaScript, Python, SQL, Java, C, HTML, CSS
Frameworks: React, Next.js, Node.js, Tailwind CSS, Bootstrap, Flask
Tools: Git, GitHub, MySQL