

# Daniel Rodriguez

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## Education

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### Bachelor of Science in Computer Science

University of Central Florida — Orlando, FL

Aug 2021 - May 2024 - GPA: 3.6

## Skills Summary

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- Languages: Java, JavaScript, Python, TypeScript, C / C++, C#
- Frameworks and Databases: React.js, Bootstrap, React-Bootstrap, AWS, MongoDB Atlas, Flutter
- Tools: Git, GitHub, GitLab, Git Bash, IntelliJ, Android Studio, Visual Studio Code
- Platforms: Postman, Jupyter, Windows, MacOS, Linux (Ubuntu)
- Soft Skills: Leadership, UI/UX Design, Problem Solving, Project Management, Teamwork, Spanish, Portuguese

## Work Experience

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### Advanced Analytical Identification of Industrial Turbine Components — Senior Project

- Led the development of a mobile application enabling precise scanning and identification of industrial turbine component serial numbers with 99.5 accuracy, utilizing advanced OCR technologies.
- Implemented functionality to validate part numbers, interface with a central database through a Flask API for real-time data retrieval, and automate CSV file exports to user emails, improving maintenance outage efficiency.
- Integrated sophisticated barcode/QR code scanning capabilities using Apple's AVFoundation framework.

### Code Ninjas — Programming Instructor

Orlando, FL - June 2023 - August 2023

- Taught engaging lessons that introduced programming concepts using tools like Scratch, JavaScript, and Unity.

### Website developer for an Joury Ice Cream Cafe Oviedo — Freelance

Orlando, FL — October 2022 - Present

- Built and maintain a fully functional website for Joury Ice Cream. Frequently updating the site.

## Projects

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### Event Management App and Website - Project Manager / Developer

- Developed a social media app for college students to hangout, enabling them to create and join various events.
- Collaborated with 5 developers to integrate front-end components developed in Flutter with the MERN stack.
- Worked closely with backend developers to optimize API interactions for efficient data retrieval and implemented advanced security measures including JSON Web Tokens (JWT) and password hashing.
- Designed and managed MongoDB schemas to structure data, supporting detailed user profiles and event information.

### Automated Trading Strategy Development

- Developed a Python automated trading strategy utilizing SnP 500 data
- Implemented and analyzed Simple Moving Average (SMA) crossover strategies to identify potential buy/sell signals.

### Shells Hack Hackathon - Florida International University

September 15-17, 2023

- Developed a website for the Google Challenge at the hackathon, designed to provide international students with essential resources such as scholarships and support services.
- Implemented the project using React for frontend development and integrated Three.js for dynamic animations.

## Relevant Courses

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Computer Science 1, Computer Science 2, Processes of Object-Oriented Software, Security in Computing, Mobile Device Software Development, Discrete Mathematics, Computer Architecture EEL 4768, Senior Design, Artificial Intelligence