

SAMAR KARANCH

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EDUCATION

University of Central Florida, Orlando, FL
Bachelor of Science in Computer Science

Graduation Date: May 2025

GPA 3.97/4.00

Minor: Mathematics

Technical skills: Python, C, Java, JavaScript, TypeScript, Html, CSS, React, Firebase, Next.js, Tailwind CSS, Git, GitHub, Bootstrap, Postman

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programing, AI, Processes of Object-Oriented Development, Calculus 1-3, Discrete Math, Linear Algebra, Differential Equations

PROFESSIONAL EXPERIENCE

Sage Lab – Orlando, Florida

March 2024 – Present

Undergraduate Research Assistant

- Worked on Accessibility project which uses AI to identify and improve front end UI/UX
- Developed ground truth data set using over 70,000 json metadata and jpeg images
- Developed using python, opencv, scikit, google ocr, and pillow

PROJECTS

Reminder Website

- Developed with Blazor, C#, Html, and CSS
- Created a client-side website that can be used to track daily activities and reminders
- Integrated a responsive design to ensure compatibility

Focus Flow

- Developed with Next.js, React, TypeScript, Tailwind CSS, and Firebase
- Collaborated with 4 developers and lead back-end, middleware, and database development
- Designed REST APIs using Nest.js and TypeScript
- Utilized APIs for efficient CRUD operations on the Firebase database
- Implemented Firebase authentication and email verification for user login

Personal Portfolio Website

- Developed with React, Html, Tailwind CSS, and JavaScript
- Personal portfolio that includes information about me and my projects
- Designed UI using Tailwinds CSS
- Implemented Getform submission as contact method

Open-Source Form

- Developed file upload infrastructure on top of legacy Node.js open-source codebase
- Led back-end and implemented core HTML/JavaScript functionality
- Utilized legacy, niche JavaScript templating library
- Added ability for file upload and submission for classes

AWARDS

- Summa Cum Laude (May 2021)
- Top 10 Knight (May 2021)
- President's Honor Roll (2021, 2022)
- Dean's List (2021, 2022, 2023)