Connor Ragland

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EDUCATION

University of Florida — Aug. 2022 – May 2026
Bachelor of Arts in Computer Science, Minor in Mathematics — *Gainesville, FL*
GPA: 3.80

Relevant Coursework: Data Structures and Algorithms, Algorithm Design, Programming in C++, Programming in Python, Intro to Software Engineering, Human-Computer Interaction, Computer Architecture, Operating Systems

TECHNICAL SKILLS

Languages: JavaScript, C++, Python, HTML/CSS
Frameworks/Libraries: NextJS, React, Node.js, Express, Tailwind CSS, LangChain
Databases: MongoDB, Firebase
Developer Tools: Git, GitHub, Postman, Figma

EXPERIENCE

Full-Stack Software Engineer — Jul. 2024 – Present
Florida Community Innovation — *Gainesville, FL*
- Working directly with Miami-Dade county government, leveraging JavaScript, NextJS, Tailwind CSS, Node.js, and Firebase, to build a user-friendly platform designed to simplify recycling efforts across 34 municipalities
- Created a dashboard that enables county government, 34 municipalities, and hundreds of businesses to individually update the items they accept for recycling
- Engineered a LangChain AI agent to efficiently scrape and process data from the latest IRS dataset, transforming Florida non-profit community service information into JSON format for seamless database integration, driving enhanced resource accessibility through the Florida Resource Map

Frontend Web Developer — Nov. 2024 – Jan. 2025
Data Science for Sustainable Development Club — *Hybrid*
- Designed and developed our club website using NextJS, JavaScript, and Tailwind CSS to showcase club achievements, projects, and member profiles, enhancing online visibility and engagement
- Implemented responsive and user-friendly interfaces, integrating contact forms and application features to streamline communication and recruitment processes
- Optimized website performance and accessibility, ensuring a seamless experience across devices and browsers

Dishwasher — May. 2023 – Aug. 2023
Kazu Japanese Restauraunt — *Stuart, FL*
- Supported team success by efficiently managing tasks and coordinating with staff in a high-pressure environment to ensure smooth operations

PROJECTS

GatorGrind: Mental Wellness | *JavaScript, React, Node.js, Express, MongoDB, CSS, Git* — Sep. 2024 – Nov. 2024
- Built a secure JWT-based authentication system for login/signup, ensuring robust user access control
- Created protected API routes with token verification middleware, securing user-specific features
- Developed RESTful API endpoints with CRUD functionality to power a community forum, driving mental health and financial discussions for college students
- Integrated GPT-3.5 Turbo with custom prompts to deploy a chatbot delivering UF-specific mental health resources
- Tested API endpoints with Postman and documented backend processes for team efficiency

YouTube Transcript Chat Bot | *JavaScript, NextJS, Tailwind CSS, Node.js, LangChain, Git* — July. 2024
- Engineered a LangChain Retrieval-Augmented Generation (RAG) pipeline to extract YouTube transcript data and populate a Pinecone vector database for relevant, context-aware data retrieval
- Built and deployed a NextJS and Tailwind CSS chatbot leveraging the RAG pipeline and GPT-4 Mini to provide video-specific responses, successfully serving 150 users in 24 hours during a hackathon