Cole Smith

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Education

University of Florida Gainesville, FL
Bachelor of Science in Computer Science *Expected May 2027*

- *GPA*: 4.00
- *Minors*: Mathematics, Statistics
- *Honors*: Presidential Gold Scholar

Experience

Undergraduate Research Assistant Aug. 2023 – Current
University of Florida *Gainesville, FL*

- Utilizing Python and C++ to repair a Blender add-on
- Converts quad-dominant meshes into B-spline patches, allowing for smooth surfaces without the drawbacks of Catmull-Clark subdivision

Projects

Attitune | *Next.js, Flask, MongoDB Atlas, Tailwind, OpenAI* Oct. 2023
HackGT 2023

- Utilized OpenAI GPT-4 API for sentiment analysis of 4 distinct attributes to recommend music
- Incorporated a cloud database with MongoDB Atlas populated with migrated Spotify WebAPI data to **increase performance by 92%** and eliminate the risk of rate limits
- Used Vercel to deploy the web application, and Render to deploy the Flask API server

Hospes | *MERN (MongoDB, Express, React.js, Node.js)* Sep. 2023
Shellhacks 2023

- Utilized the MERN stack, enabling seamless REST API integration with our React front-end and complex host/property filtering system
- Quickly adapted to teck stack challenges, requiring a migration from Django to MERN due to authentication limits near the end of development

Sorting Algorithm Visualizer | *HTML, CSS, JavaScript, Bootstrap* May 2022

- Developed an algorithm visualizer with multiple different sorts, including options to visualize a sort step-by-step and/or input a custom array

Involvement

UF Software Engineering Club Oct. 2023 – Present
Tech Officer – Clubfinity Team

- Currently in the onboarding process to join the Clubfinity development team
- Will develop and deploy a full-stack MERN application to centralize UF clubs

Gator Motorsports Sep. 2023 – Present
Firmware Team

- Currently building a lap simulation tool with Python and C++ with adjustable properties (gear ratio, drag coefficient, etc) to predict optimal setups

Technical skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, Swift, SQL
Libraries/Frameworks: Tailwind, React, Next.js, Flask, Node.js, TensorFlow
Technologies: Git, Unix, MongoDB Atlas, OpenAI, Vercel, Render