

# Cole Smith

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## EDUCATION

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### University of Florida

Aug. 2023 – May 2027

*Bachelor of Science in Computer Science, Minor in Mathematics*

*Cumulative GPA: 4.00*

- **Relevant Courses:** Data Structures and Algorithms, Advanced Programming Fundamentals, Intro to Computer Organization, Computational Linear Algebra, Applications of Discrete Structures

## EXPERIENCE

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### Teaching Assistant

Jan. 2024 – Present

*COP3502, Programming Fundamentals 1*

*Gainesville, FL*

- Holding office hours, grading assignments, and acting as a crucial resource for students

### Technical Officer

Dec. 2023 – Present

*UF Software Engineering Club*

*Gainesville, FL*

- Developing a full-stack React Native mobile application aimed at unifying the UF club experience to promote university-wide club participation and offer a better experience
- Collaborating in an Agile team environment on the R&D team, working on larger, experimental projects
- Currently building an API endpoint to allow developers to push app-wide alerts such as maintenance

### Undergraduate Researcher

Aug. 2023 – Present

*UF SurfLab*

*Gainesville, FL*

- Developing an iOS client for a surgery simulator, refactoring the remote and local servers to allow for device connection, and testing with surgeons from the UF Shands hospital
- Integrated a Bernstein-Bezier coefficient generator for polar patch generation, extending sector support from 3-8 to any arbitrary  $n \geq 3$ , allowing for greater mesh compatibility for B-spline patches

## PROJECTS

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### Attitune | *Next.js, Flask, MongoDB, Tailwind CSS, OpenAI*

Oct. 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 Web API data to increase performance by 92% and eliminate the risk of rate limits

### Hospes | *MERN Stack (MongoDB, Express, React, Node)*

Sep. 2023

- Implemented a host/property filtering system and a REST API to connect to the React frontend
- Quickly adapted to tech stack challenges, requiring a migration from Django to MERN due to authentication limits near the end of development

### Sorting Algorithm Visualizer | *HTML, CSS (Bootstrap), JavaScript*

May 2023

- Developed an algorithm visualizer featuring a variety of sorting methods, complete with options to visualize each sort step-by-step and input custom arrays

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, JavaScript, HTML/CSS, Swift, Java, SQL

**Frameworks & Libraries:** React, Next.js, Node.js, Flask, Tailwind, TensorFlow

**Developer Tools:** MongoDB, Git, Unix, Linux, VS Code, Visual Studio