

# Cole Smith

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## EDUCATION

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### University of Florida

Aug. 2023 – May 2027

*Bachelor of Science in Computer Science*

*Cumulative GPA: 4.00*

- **Minors:** Mathematics, Statistics
- **Honors:** University Scholar (publication by April 2025)
- **Relevant Courses:** Data Structures, Algorithms, Software Engineering, Computer Organization, Computational Linear Algebra, Discrete Structures, Statistics

## EXPERIENCE

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### Software Engineering Intern

May 2024 – Aug. 2024

*Intuit Credit Karma*

*Charlotte, NC*

- Developing an internal Scala library with tools to manage and interact with Kafka clusters, with features such as offset management, rolling restart, and partition rebalance
- Aiming to improve cluster incident response velocity by democratizing Kafka operations to all engineering teams, with guardrails in place to preserve safety

### Teaching Assistant

Jan. 2024 – May 2024

*COP3502: Programming Fundamentals 1*

*Gainesville, FL*

- Held office hours 3x/week, created exams and quizzes, and helped students in the Discord

### 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
- Collaborating in an Agile team environment on the R&D team, working on larger, experimental projects
- Added an endpoint to allow developers to push app-wide alerts, and emoji reactions to announcements

### 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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### Sentimentor | *React, TypeScript, Node, MongoDB, FastAPI, TensorFlow, PyTorch*

Mar. 2024

- Developed frontend and backend for a sentiment collection tool for professors to use during lectures
- Enabled seamless room creation/joining with join codes, and sentiment collection through manual input and/or facial analysis using Residual Masking Network

### PathPilot | *React, TypeScript, Node, Framer Motion, Google Maps API, OpenStreetMap*

Mar. 2024

- Processed over 136GB of OSM data into a directed graph with distance/speed limit as an edge weight
- Developed frontend and backend to perform route calculation using Dijkstra's and A\*, using difference in angle between current node and next node with the end node as a heuristic

## TECHNICAL SKILLS

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

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

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