

# Cole Smith

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## EDUCATION

### University of Florida

*Bachelor of Science in Computer Science*

Aug. 2023 – May 2027

*Cumulative GPA: 4.00*

- **Minors:** Mathematics, Statistics
- **Honors:** Honors Program, University Scholar (publication mid-2025)
- **Other:** UF Competitive Programming Team, TA for Programming Fundamentals 1

## EXPERIENCE

### Software Engineering Intern

*Intuit Credit Karma*

May 2024 – Aug. 2024

*Charlotte, NC*

- Developed an internal Scala library for managing Kafka clusters, enabling **98% faster** offset resets, rolling restarts, and partition rebalancing
- Engineered an automated task that updates BigQuery table schemas upon merging changes in the schema repository, eliminating the introduction of human error

### Undergraduate Researcher

*UF SurfLab*

Oct. 2023 – Present

*Gainesville, FL*

- Developing an iOS client for a surgery simulator that turns the phone into a surgical tool, and testing with surgeons from UF Health Shands
- Integrated a Bernstein-Bezier coefficient generator for polar patch generation, expanding sector support to any arbitrary  $n \geq 3$ , enhancing mesh compatibility for B-spline patches

### DRIFT Team Developer

*Dream Team Engineering*

Aug. 2024 – Present

*Gainesville, FL*

- Collaborating with physicians and executives to design novel healthcare technologies improving patient care at UF Health Shands, or the community at large
- Enhancing epidemic preparedness by developing a bioinformatics model to predict disease spread two weeks in advance, enabling proactive resource allocation for public health officials

## PROJECTS

### 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 via manual input and facial analysis using Residual Masking Network

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

Mar. 2024

- Processed over 136GB of OSM data into a directed graph with distance and speed limit as edge weights
- Developed frontend and backend for route calculation using Dijkstra's and A\* algorithms, incorporating angular difference as a heuristic

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** React, Node.js, Flask, TailwindCSS

**Tools:** Apache Kafka, MongoDB, Git, Unix, Linux, Docker, Google Cloud Storage, BigQuery, CircleCI