

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

SKILLS

Languages: C, C++, Python, Java, JavaScript, TypeScript, HTML, CSS, SQL, Swift, R, Bash

Platforms: Apache Kafka, Google Cloud, Heroku, Linux, Unix, CircleCI

Other: React, NodeJS, APIs, Git, CI/CD, Docker, Kubernetes, Agile, SDLC, Next.js

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 through a web graphical user interface
- 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 $n > 2$, enhancing mesh compatibility for B-spline patches

Software 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 and 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

Vested | *React, TypeScript, NodeJS, Google Gemini*

Sep. 2024

- Built a portfolio platform using public ESG data, helping new investors understand company impacts
- Implemented AI-powered tool to suggest non-profit initiatives based on portfolios

Sentimentor | *React, TypeScript, NodeJS, MongoDB, FastAPI, TensorFlow, PyTorch*

Mar. 2024

- Developed 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, NodeJS, Google Maps API, QGIS*

Mar. 2024

- Developed a navigation app with features such as multiple stops, and multiple route options
- Preprocessed 136GB of OSM data into a directed graph with distance and speed limit as edge weights