

# Cole Morgan

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## EDUCATION

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### University of Florida

Bachelor of Science in Computer Science, GPA: 3.82

Gainesville, Florida

Aug. 2023 – December 2026

## EXPERIENCE

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### Society of PC Building Web Developer

University of Florida

September 2024 – Present

Gainesville, Florida

- Developed a Next.js, React, and TypeScript website with Firebase integration, serving 800+ club members and featuring a custom admin panel for real-time content management.
- Built secure officer dashboard enabling authorized users to update project showcases and event information through Firebase dynamically.
- Collaborated with Gator User Design Club to transform Figma mockups into functional web pages and interactive admin interfaces.

### Google Student Developer Club Webmaster

University of Florida

August 2024 – Present

Gainesville, Florida

- Redesigned the club's website into a responsive React application.
- Boosted the Google Lighthouse performance score from 41 to 100 on mobile devices.
- Partnered with club officers to accurately reflect the organization's values and vision.

## PROJECTS

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### Coding Question Platform | React, Docker, Firebase, JavaScript, Tailwind

April 2024

- Developed a coding question platform using React and Tailwind, providing an interactive and user-friendly interface.
- Implemented user authentication and progress tracking with Firebase, securely storing data in Firestore.
- Deployed a containerized code execution engine using Docker, enabling safe and efficient code grading and execution.

### Fortnite Performance Tracker | React, Express.js, Typescript, MongoDB, Figma

August 2024

- Developed a Fortnite performance tracker with a React and TypeScript frontend, designed using Figma for a polished UI/UX.
- Enabled users to upload .replay files, which are processed by a RESTful Express.js backend, converting binary data into 100k+ lines of JSON.
- Extracted and analyzed data from replay files to generate in-depth performance statistics, enhanced with additional insights from integrated API endpoints.
- Implemented JWT authentication to secure user sessions and API requests, ensuring data privacy and access control.

### Medical Micro-credentialing App | React, Typescript, Firebase, Tailwind

October 2022 – Present

- Developed "Fulfillment," a web platform for gamified medical education using React, TypeScript, TailwindCSS, and Firebase, to enhance continuous learning for medical professionals.
- Earned 3rd place and a \$500 prize at Medihacks 2024 by addressing the critical need for agile, evidence-based learning to reduce medical errors and improve health outcomes.

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, SQL (Postgres), NoSQL (MongoDB), Python, C++, HTML/CSS,

**Frameworks:** React, Next.js Node.js, Tailwind, Express.js, Flask, FastAPI

**Tools:** Git, Firebase, Docker, Google Cloud Platform, VS Code, Figma

## AWARDS/ACHIEVEMENTS

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**Medihacks Hackathon Winner:** Achieved 3rd place out of 53 submissions in a competitive week-long event.

**Nurturing Gator Unity and Synergy Hackathon Winner:** Secured 3rd place among 25 submissions at a university-sponsored hackathon.

**KatyYouthHacks Hackathon Winner:** Placed 3rd out of 46 submissions as a solo participant.