

# Rohit Dasgupta

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## EDUCATION

### University of Florida

Gainesville, FL

*B.S. in Computer Science and Mathematics: GPA: 3.75*

*Expected May 2027*

Relevant Coursework: Intro to Competitive Programming, Data Structures & Algorithms, Intro to Software Engineering

## SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, C++, Rust, SQL, HTML/CSS, Lua, Bash,  $\text{\LaTeX}$

**Frameworks & Libraries:** Next.js, React, Node.js, Expo, Electron, Tailwind CSS, Three.js, p5.js, Drizzle

**Developer Tools & Cloud:** Git, Docker, GitHub Workflows, AWS (CDK, CloudFront), Firebase, Supabase

## EXPERIENCE

### EDU Africa

Cape Town, SA

*Project Manager, Lead Developer*

*May 2025 – July 2025*

- Led team of **3+** developers building production-ready non-profit project management platform in **5 weeks**
- Oversaw the implementation of **10+** core features such as **real-time** file editors & **role-based** permissions
- Architected scalable, type-safe solution using **Next.js**, **TypeScript**, **Supabase**, **Drizzle ORM**, & **TRPC**
- Conducted iterative development with continuous user feedback and participatory design best practices

### Emergency Ventures

Fort Lauderdale, FL

*Junior Developer*

*July 2024 – August 2024*

- Secured **\$10k** in initial investments by developing & presenting an MVP emergency response app.
- Engineered a CI/CD pipeline with **GitHub Actions** & **AWS CDK**, slashing release times by **80%**.
- Collaborated with designers using **Figma** to build responsive, intuitive user interfaces.
- Built **Python** & **JavaScript** data pipelines, creating AI-ready datasets from emergency APIs.

### UF Open Source Club

Gainesville, FL

*Technical Lead*

*January 2025 – Present*

- Mentored a team of **8** student developers through code reviews and technical guidance.
- Established **Git** feature-branching workflows & a Wiki for a repo with **160+** commits.
- Implemented a full-stack mobile monorepo, improving code reusability & developer onboarding.

### UF Badminton Club

Gainesville, FL

*President*

*June 2025 – Present*

- Led executive board of **10+** officers, overseeing all club operations for **100+** active members.
- Organized **3** major tournaments, coordinating logistics

*Fundraising Chair*

*August 2024 – June 2025*

- Spearheaded fundraisers generating over **\$11,000** for club operations and tournaments.
- Developed a tournament registration platform with **Next.js** & **PostgreSQL** to ensure **100%** fee collection.

## PROJECTS

**Dino Luzzi E-Commerce Site** — *Next.js, Three.js, Tailwind CSS*

2024

- **Won** a university hackathon for site with interactive 3D product views.

**Procedural Generation via Wave Function Collapse** — *Python, p5.js*

2023

- Used Wave Function Collapse & Generative Grammar to procedurally generate 2D game levels.
- Authored a formal research paper and presented findings for the AP Capstone program.

**Competitive Programming Platform** — *React, Firebase*

2022

- Built a full-stack platform with automated judging & leaderboards for **50+** high school programming club.

## AWARDS & HONORS

National Merit Finalist: Full-ride scholarship valued at **\$12,000+** per year.

Kovner Opportunity Scholarship Finalist: Additional **\$10,000** per year scholarship.

**1st Place**, Florida Lockheed Martin's CodeQuest (2023)

**Top 20** Placements, University of Central Florida Programming Competition (**3 times**)