Rohit Dasgupta

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EDUCATION

University of Florida — Gainesville, FL
Bachelors of Science in Computer Science and Mathematics — *Graduating May 2027*
Relevant Coursework: Intro to Competitive Programming, Data Structures and Algorithms

SKILLS

Languages: Python, JavaScript, C/C++, HTML/CSS, SQL, Java, Rust, Lua, Bash, LaTex
Libraries: NextJS, React, Expo, Electron, Tailwind CSS, Three.js, p5.js
Cloud & Other Tools: AWS CDK, Firebase, Docker, Git, Github Workflows, ArcGIS, Blender

EXPERIENCE

Emergency Ventures — Fort Lauderdale, FL
Junior Developer — *Summer 2024*
- Attracted $10k in investments and partnerships with municipal FL governments through Minimum Viable Product of emergency response app developed in a team of two.
- Automated deployment processes by delivering a CI/CD pipeline via GitHub and AWS CloudFront, reducing release time by 80%.
- Integrated emergency response APIs with Python & JavaScript, creating AI-ready datasets.

UF Open Source Club — Tech Lead, Spring 2025
- Created Full-stack monorepo for improved code reusability and sharing
- Provided technical mentorship to a team of 8 club members on Hide and Seek project
- Implemented feature-branching and Git Wiki workflows for projects main repository (160+ commits), significantly enhancing code stability, development efficiency, and readiability for all contributors.

UF Badminton Club Officer — Fundraising Chair, 2024-2025
- Spearheaded merchandise and tournament fundraisers generating $11,000 to both support club tournaments and enhance member engagement.
- Designed alternative tournament hosting platform using Next.js and PostgreSQL to ensure 100% payment fulfillment for tournaments

PROJECTS

Dino Luzzi E-Commerce Site — 2024
- Won Open Source Club Hackathon with interactive 3D elements in NextJS, TailwindCSS, and Three.js

Wave Function Collapse & Generative Grammar Research — 2023
- Implemented Generative Grammar and Wave Function Collapse algorithms to procedurally create video game content in the style of traditional 'Legend of Zelda' content
- Wrote Research Paper and presented topic in for AP Capstone class

Programming Competition Hosting Platform — 2022
- Full-stack programming tournament hosting solution for local high school club using React and Firebase

AWARDS & HONORS

- 56th Place, South East Regional Intercollegiate (2024)
- 1st Place, Florida Lockheed Martin's CodeQuest (2023)
- 6th, 15th, and 20th Place, University of Central Florida Programming Competition (2023, 2022, 2020)
- National Merit Finalist: $12,000 per year and full-ride scholarship to the University of Florida
- Kovner Opportunity Scholarship Finalist: additional $10,000 per year scholarship