

Siddharth Hathi

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WORK EXPERIENCE

DUST Identity, Boston MA

September 2022 – December 2022

Software Engineering Intern

- Created a web application for managing customer accounts, visualizing product usage data, and managing authentication/security roles using React, Flask, and FastAPI

DALI Lab, Hanover NH

September 2021 – Current

Software Developer and Software Development Mentor

- Wrote code, led engineering teams, and mentored new members in the lab. Key projects:
 - AI-driven augmented reality intubation simulator for physicians. Runs on Oculus Quest 3 using OpenAI LLMs, TCP socket networking, custom embedded sensor hardware, and Unity/C#
 - Oculus Quest VR application for visualizing metal structures/Bravais lattices using Unity and C#

Ghost Pacer (acquired by Peloton Jan 2024), Seattle WA

June 2019 – January 2022

Graphics Engineer (worked on lightweight AR headset for athletes with custom hardware and embedded software)

- Built a version of the embedded augmented reality graphics engine using OpenGL ES 2.0, C, and C++
- Designed and created the Kickstarter campaign that generated \$150,000 in 30 days
- Wrote a part of Ghost Pacer's iOS application using Swift/UIKit

Dartmouth College Department of Physics and Astronomy, Hanover NH

January 2021 – June 2021

Research Assistant for Relativistic Electron Atmospheric Loss (REAL)

Built an online data portal, satellite tracker, and project website for REAL using React and NodeJS

PERSONAL PROJECTS

Dartchat

June 2023 – December 2023

Encrypted group messaging app

- Built a rotating-key encrypted messaging app (React Native, Node, Socket.io, Firebase, NaCl, TypeScript)

Dartspot

November 2022 – January 2023

Web-based housing aggregator for students

- Built a scraping bot that used IP routing to pull data on rental listings from online housing platforms
- Built an API and a frontend using FastAPI/Typescript/React that allowed users to browse the listings

Lakeside Course Reviews

November 2019 – January 2020

- Built a course review website for my high school using PHP and MySQL

EDUCATION

Dartmouth College, Hanover, NH

June 2024

Bachelor of Arts, Double Major in Computer Science and Mathematics

GPA 3.6/4.0

- **Relevant Coursework:** Software Design | Discrete Math | Algorithms | Computer Architecture | Systems Engineering | Graph Theory | Linear Algebra | Machine Learning | Real Analysis (Honors) | Combinatorics | Data Structures | Dynamical Systems | Computer Graphics | Randomized Algorithms | Operating Systems | Abstract Algebra (Honors) | Security and Privacy | Mathematical Finance | Deep Learning | Probability
- **Honors:** Neukom Scholar ('22 Summer) | Citations for Meritorious Performance ('20 Fall, '24 Winter)
- **Testing:** SAT: 1570/1600 (800/800 Math, 770/800 Writing)

SKILLS

Programming Languages:

C | C++ | C# | Java | Python | Swift | Go (GoLang) | JavaScript/TypeScript | Rust | HTML/CSS | SQL | Matlab

Technologies:

Unity | XCode | SwiftUI | UIKit | React.js | Ruby on Rails | Node.js | Git | Firebase | Flask | FastAPI | Express.js |

MongoDB | PostgreSQL | OpenGL/ES | Embedded Systems | React Native | NaCl | WebSockets | Pytorch | WebGPU