

# NITYA AGARWALA

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## EDUCATION

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**Dartmouth College**, Hanover, NH **June 2025**  
**GPA 4.0/4.0**  
*Bachelor's Degree in Computer Science*

Activities: Women in Computer Science, HackDartmouth, CS Teaching Assistant, Human-Centered Design Studio

Relevant Coursework: Introduction to Programming, Object Oriented Programming in Java, Software Design and Implementation, Discrete Mathematics in Computer Science

Honors/Awards: Rufus Choates Scholar, Academic Citation for Excellence in COSC10

**Stonehill International School**, Bangalore, India **June 2021**

Honors/Awards: Google Code to Learn Machine Learning Award, IB score 45/45

## RELEVANT EXPERIENCE

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**Digital Applied Learning and Innovation (DALI) Lab**, Hanover, NH **January 2022 – Present**  
*Software Engineer & Development mentor (since Sep 22)*

- Collaborating with design and development teams to build full-stack logic for mobile & web applications
- Delivering production-ready real-world products for paid client work and mentoring new developers
- Leading team to develop official Dartmouth-Hitchcock tracking app targeted for 700+ medical patients

**Geisel Jacobson Lab**, Hanover, NH **June 2022 – Sept 2022**  
*Android Developer Intern*

- Developed novel 400+ user full-stack health data statistical analysis application using flutter/dart
- Aggregated data from embedded wearable devices over wireless networking protocol and frontend UI flows
- Led team of 10 students in agile development flow, standups, testing and sprint planning

**Dartmouth College Computer Science Department**, Hanover, NH **September 2022 – Present**  
*Teaching Assistant, COSC10 Object Oriented Programming in Java*

- Lead 10 hours per week of educational lectures teaching advanced data structures and algorithms concepts
- Mentored 120 students using applied Java expertise on term-long projects

## PROJECTS

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**iPath** (with the DALI Lab) **September 2022 – Present**  
*Software Engineer*

- Developing mobile application under NIH funded grant for screening, treatment matching and tracking progress for cancer patients at Dartmouth-Hitchcock and 8 Grafton County medical centers
- Leading development in second phase with team of 7 to ship completed software fulfilling customer need
- Implementing Firebase NoSQL database & React-Native logic for collecting, storing, transmitting, and deleting personal health information under HIPAA & creating click tracking features for hospital data for 200+ user beta

**Mood Triggers** (with Geisel Jacobson Lab) **June 2022 – August 2022**  
*Android Software Engineer*

- Coded Python backend to track and analyze influence of 12 factors with >300 health data points for each user
- Deployed Bluetooth functionality to get exercise and heart rate data from Fitbit and smart wearables using flutter

**Dart-Schedule** **Summer 2022**  
*Personal Project*

- Conceptualized web app to automatically schedule team meetings/lunches/events for upto 15 busy college students based on existing calendar availability and reduce planning time by >70%
- Engineered backend by leveraging Google Calendar API, Node.js and wrote search algorithm to compute most recent available time block between students & added functionality for creation, approval & invitation to events

## SKILLS

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**Technical:** Java, Kotlin, Python, JavaScript, Typescript, C, ReactJS, Redux, React-Native, MongoDB, Cloud Firestore, Firebase, NodeJS, ExpressJS, HTML/JSX, CSS, Git, Bash, Swift (*learning*)

**Interests:** Photography, Video Production, Digital Art, Badminton, Hiking