

Atharv Agashe

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EDUCATION

Dartmouth College, Hanover, NH

Expected: June 2025

B.A. Computer Science, GPA: 3.56

COURSES

Computer Architecture • Algorithms • Discrete Math • Advanced Solidity and Smart Contract Development • Object Oriented Programming • Python Data Structures • Capstone: Retrieving, Processing, and Visualizing Data with Python • Python to Access Web Data • Using Databases with Python • Differential Equations • Multivariable Calc w/ Linear Algebra

EXPERIENCE

Amazon Web Services (AWS)

May 2023 — Present

Software Engineering Intern

- Identified and consolidated the **top 0.004%** (~1 GB) of critical metrics from an S3 bucket with **500 PB of query data**.
- **Improved database read speeds by 400+%** by optimizing database design with indexing techniques. Saved the team of 5 senior engineers 4 hours a week by **reducing post-mortem analysis time by 54% (SQL, Hibernate)**.
- Built out the ML infrastructure by **aggregating & validating data** and **laying the infrastructure for model training**.

SmartMicroscope (DALI Lab)

January 2023 – Present

Software Engineering Intern

- Developed a smart microscope that enabled pathologists to load digital slides, allowing them to view algorithmically stained samples, **saving 3 days per diagnosis** (versus sending samples to the lab to be stained and tested).
- Designed and built a tablet app to **load digital slides** on the microscope and allow doctors to **share digital slides** and annotations across the world, **saving weeks of time in transport** when requesting a specialized second opinion.
- Tested the microscope with pathologists who rated it **20% more comfortable and 65% more effective** than traditional microscopes.

Dartmouth Blockchain

January 2022 – Present

Co-founder

- Co-founded [Dartmouth Blockchain](#), to build a blockchain competent community at Dartmouth. Grew enrollment to **20+ members** in 1 quarter by building the website, running the marketing campaign, and reaching out to **500+ students**. Received **50+ applications**, and onboarded **20+ members** after the interview process.
- Designed [Autonoma Protocol](#), which allows for permissionless and universal tokenization of future income. Co-authored the **10 page white-paper**. Got feedback from **10+ Venture Capital Firms** to iterate the design, and am currently working on our first prototype.
- Authored 2, co-authored 3, edited **10 research articles** analyzing the current breakthroughs and trends in Web 3.0. These articles are published on [Medium](#).

Norris Cotton Cancer Center

January 2022 – November 2022

Research Assistant

- Enabled the team to measure treatment effectiveness for end-of-life care by designing and building an fMRI program recorded patients reactions to a range of video stimuli (**Python, PsychoPy**).
- **Reduced cost** to replicate the experiment by **97%** by building a web app that displays the video stimuli and records survey responses without the fMRI data to **raise accessibility (HTML, CSS, JS)**.

SKILLS

Web Development: Frontend (HTML, CSS, JS), Backend (Python, Java, C, SQL, S3, AuroraDB), Libraries/Tools (ReactJS, TailwindCSS, Selenium, Git, Beautiful Soup, OpenCV, Pandas, Hibernate, Lombok)

Public Speaking: Pitched at business plan competitions and hackathons in front of audiences of 150+ people, won 1st place for the Most Innovative Hack at MAHack IV; Outcompeted thousands of contestants to win the **National Storytelling Competition 3 times** in back-to-back years.

Hobbies: Hiking, Fractal Art/Graphics (with L-Systems), Archery, Chess (2100), Poker, Karate (Black Belt), Clarinet, Guitar