

Pranay Agrawal

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EDUCATION

Stanford University

Master of Science in Computer Science

Concentration: Artificial Intelligence

Stanford, CA

Sept. 2022 – June 2024

GPA: 4.0/4.0

Georgia Institute of Technology

Bachelor of Science in Computer Science

Concentration: Intelligence and Devices

Atlanta, GA

Aug. 2019 – May 2022

GPA: 4.0/4.0

- **Coursework:** Design and Analysis of Algorithms (top 5%), Objects and Design, Computer Organization and Programming, Graduate Machine Learning, Graduate Deep Learning, Artificial Intelligence, Computer Vision

EXPERIENCE AND RESEARCH

Citadel Securities | *Software Developer Engineer Intern*

June 2023 – Aug. 2023

- Elevated traceability and resilience by architecting a new framework delineating job and global data dependencies
- Replaced an Excel-based solution with a Python dashboard, transforming trader UI flexibility, enabling complex field calculations, and ensuring greater system stability for enhanced trade decision-making

DRW | *Software Developer Engineer Intern*

June 2022 – Aug. 2022

- Built from scratch a UDP multicast subsystem that allows any application to display messages, play sounds, and execute commands on the primary FICC trading UI with extremely low effort from the developer's perspective

Amazon | *Software Developer Engineer Intern*

May 2021 – Aug. 2021

- Implemented Datapath Precompute service to make more informed decisions on which N Alexa skills are relevant to a user's vocal request with Amazon DynamoDB and Google Guava Cache, **reducing financial cost by 70%**

Georgia Tech CCG: CopyCat | *Undergraduate Researcher* | *ACM-CHI 2021 Publication*

Aug. 2019 – Aug. 2022

- Developing a Computer Vision based ASL recognition framework to improve short-term memory of deaf children
- Demonstrated **HMMs outperform Transformers by 17%** for ASL recognition
- Implemented custom GMM visualization pipeline for feature selection, **improving word accuracy by 23%**

PROJECTS

VISION | *AutoML Vision Edge, Google ARCore, Android App*

Aug. 2019 – Aug. 2022

- 2nd Place at GT Idea to Prototype Showcase | Semifinalist at 2021 InVenture Prize
- Collaborating with the GT Sonification Lab to build a novel, low-cost wearable device to assist the disabled and visually impaired population with safe and efficient navigation yielding a **70% reduction in accidents**

Health Port | *React Native, TypeScript, Expo, Ignite CLI, Figma, Postman, Git*

Oct. 2020 – Aug. 2022

- 1st Place at HackGT7: NSIN Sponsored Challenge | Independent Group Project
- Collaborating with the US Army rangers to create a single interface to aggregate data from a variety of fitness-tracking devices and their respective APIs to **improve operational training efficiency by 60%**

EXTRACURRICULAR

Undergraduate Teaching Assistant | *Design and Analysis of Algorithms*

Aug. 2020 – May 2022

- Designed quizzes & lecture problems/solutions twice a week along with course exams & review sessions each unit

Founding Member and President | *Programming Team*

Aug. 2018 – May 2022

- Educated 100+ students with competitive programming algorithms and topics for USACO and ACM-ICPC

AWARDS AND HONORS

MIT Battlecode (AI Programming Competition) | *Real-time strategy game*

Jan. 2023

- 3x Finalist out of 650 teams in worldwide month long competition with AI, distributed algorithms, and blockchain

Citadel Terminal Live (AI Programming Competition) | *Tower defense-style strategy game*

Oct. 2020

- 1st Place out of Georgia Tech and UT Austin teams | 6th Place out of 50,000 students in global competition

Competitive Programming Contests

Aug. 2018 – Present

- USACO Gold Division (top 10%) | 8th in 2020 Southeast USA Regional Contest | Round 2 in Google Code Jam

TECHNICAL SKILLS

Languages/Tools: Java, Python, C & C++, C#, JavaScript, HTML & CSS, Git, Brazil, JUnit, Jira, Linux CLI