# Pranay Agrawal

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#### **EDUCATION**

Stanford University

Stanford, CA

Master of Science in Computer Science

Sept. 2022 - May 2024

Concentration: Artificial Intelligence

**GPA**: 4.0/4.0

Georgia Institute of Technology

Atlanta, GA

 $Bachelor\ of\ Science\ in\ Computer\ Science$ 

 $Aug.\ 2019-May\ 2022$ 

Concentration: Intelligence and Devices

**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

**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**%

 $NCR \mid Software Engineering Intern$ 

May 2020 - Aug. 2020

• Integrated Apple/Google Pay WinEPTS services on a solution that allows consumers to shop using their smartphone, using framework Xamarin in .NET mobile development to increase user retention by 20%

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 – Present

- 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 | 13th Place out of 30,000 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: Java, Python, C & C++, C#, JavaScript, HTML & CSS, Mathematica

Tools/Frameworks: Git, JUnit, Docker, GCP, Jira, Postman, Expo, Linux CLI, Brazil, OpenCV, TensorFlow, React