

# Navaneet Kadaba

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## EDUCATION

**Georgia Institute of Technology** | Atlanta, GA

B.S (*Intelligence & Systems Architecture*) & M.S (*Computing Systems*) Computer Science | GPA: 4.0

- Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Artificial Intelligence, Operating Systems, Networking, Algorithm Analysis/Design, Processor Design, Computer Architecture, Robotics, Computer Vision, Machine Learning, Compilers, High Performance Computing
- Teaching Assistant for Automata and Complexity, previously for Data Structures and Algorithms
- Faculty Honors & Dean's List

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## SKILLS

Programming Languages: **Java, C, C++, Python, Golang, Javascript/Typescript**

APIs/Libraries: **React.js, Angular, Node.js, OpenCV, gRPC, GraphQL**

Tools: **Unix, GDB, Git, CI/CD, AWS, GCP, Docker, Kubernetes**

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## WORK EXPERIENCE

**NVIDIA** | Software Engineer

July 2024 - Present

- Working on software infrastructure related to **Kubernetes** using **Typescript** and **Golang**

**Google** | Software Engineering Intern

Summer 2023

- Extended GCP Workload Manager to allow custom rules using **Golang, GraphQL, Java, Typescript**, and **Angular**
- End to end feature from API to front end, responsible for design, development, and testing
- Demoed to customers which directly resulted in them spending millions more in GCP

**Google** | Software Engineering Intern

Summer 2022

- Implemented a feature that accessed Google's knowledge graph to enrich metadata for movies on Youtube & Youtube TV using **C++, gRPC**, and **SQL**.
- Responsible for end to end planning, development, testing, deployment, and monitoring of feature
- Impacted 600k+ entities in production and feature will run on all new movies in the database, contributing to other features that all together result in 5% of Youtube/Youtube TV TVOD revenue

**SiriusXM Connected Vehicle Services** | Software Engineering Intern

Summer 2021

- Implemented a support engineer chatbot for Slack using **NLP/ML** in **Python** that solved 40% of cases, and assisted support engineers with 60% of cases, totalling 150 cases a day
- Developed a React website which displays diagnostic data to assist a support engineer
- Utilized the serverless framework with **AWS** services such as **Lambda, DynamoDB, Amplify**

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## ACTIVITIES

**Georgia Tech HPArch Research Lab** | Graduate Researcher

August 2023 - December 2023

- Extended **CUDA** to run on different GPU architectures by writing SASS/PTX to **LLVM** IR lifters

**Georgia Tech Systems for AI Research Lab** | Graduate Researcher

August 2023 - December 2023

- Developed state of the art machine learning inference serving systems

**Georgia Tech Robotics** | Sponsorship Chair, Ex-Software Training Lead

August 2020 - May 2023

- Managed all relations with company sponsors to financially support the club. Raised \$40,000.
- Trained new members on Robotics Principles such as **C++, ROS, Neural Networks, Machine Learning**
- Migrated nodes used for simulation testing in Gazebo from ROS1 to ROS2.

**Georgia Tech Computer Architecture & Processor Design** | Class Project

Fall 2022

- Created a functional 5 stage pipelined processor in **Verilog**
- Explored concepts such as superscalar pipelines, out of order execution, and branch prediction

**Georgia Tech Operating Systems Design** | Class Project

Spring 2022

- Implemented virtual memory management, kernel level threading, a file system, and a login system in **C** for xv6, a **Unix** like operating system

**Georgia Tech Experimental Flights VIP** | Software Lead

August 2020 - August 2021

- Led a team of 7 that developed an admin flight control webapp in **React**. The app displays the drone's data, allows modifications to its path, and serves as a **REST API** for a mobile app to access drone data.
- Revamped an autonomous drone path planning software that uses a RRT algorithm by creating a GUI that streamlined testing various routes for Georgia Tech's campus

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## AWARDS

- Georgia Tech College of Computing Leadership Award March 2022
- 5th place (out of 50) Stanford ProCo (Programming Competition) May 2017

Deleted points:

**Georgia Tech Inan Research Lab** | Undergraduate Researcher

August 2021 - Present

- Utilize computer vision techniques to analyze patient data from a seismocardiogram and ECG