

# THANEESH B. KRISHNASAMY

Atlanta, GA

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## EDUCATION

### Georgia Institute of Technology

August 2021 – December 2024

*B.S. in Computer Science, Cumulative GPA: 3.97 / Major GPA: 4.0*

Atlanta, GA

**Concentrations:** Artificial Intelligence, Systems/Architecture

**Relevant Coursework:** Algorithms Honors, Data Structures, Operating Systems, Artificial Intelligence, Systems & Networks, Computer Organization, Linear Algebra, Applied Combinatorics, Discrete Mathematics, Statistics & Applications

## EXPERIENCE

### Georgia Tech College of Computing

August 2023 – Present

*Undergraduate Teaching Assistant*

Atlanta, GA

- Design of Operating Systems

### Ibotta, Inc.

May 2023 – August 2023

*Software Engineer Intern*

Denver, CO

- Developed interactive dashboards for retailers with performance data on their offers on Ibotta's cash back platform
- Leveraged several AWS tools such as Lambdas, DynamoDB, SQS/SNS and optimized API to reduce latency by 15%
- Led the integration of benchmarking functionality into the dashboards, enabling retailers to compare the performance of their offers with similar categories of other retailers, driving increased budget allocation projected at 140%

### Georgia Tech High Performance Architecture Lab

January 2023 – Present

*Undergraduate Research Assistant*

Atlanta, GA

- Designing scheduling strategies for In-Storage GPU architectures to maximize performance and memory management
- Incorporated a GPU interface to connect to the SSD as part of MQSim, an SSD simulator, to exchange garbage collection data
- Explored design choices of ZnG, SBIOS and PGIS and contributed to the lab's existing SSD and GPU simulators

### NCR Corporation

May 2022 – August 2022

*Software Engineer Intern*

Atlanta, GA

- Created a cloud native service deployed onto GCP to support faster software and config downloads by forecourt services
- Designed the middleware update service API for terminal controllers, making the service multi-tenant and scalable, using NestJS, React and PostgreSQL
- Developed the client-side OPT keypad and tested & integrated device and fuel software with the Cloud API, reducing terminals' update times in gas stations from several days to <1s

### HexLabs, Inc.

December 2021 – Present

*Co-Director of Technology*

Atlanta, GA

- Leading the technology team, building dozens of full-stack portals for registration, judging, financing etc. that power university-wide hackathons like HackGT, reaching 4000+ students annually
- Built and maintain a comprehensive backend API using Node.js/Express.js/MongoDB, integrating several services under a microservice architecture deployed through Google Cloud
- Created and reviewed several admin-side frontend features for testing, reducing registration development time by 30%

## PROJECTS

**DayMaker:** Full-stack web application that automatically creates Google Calendar events from uploaded documents, using a custom trained NER model to extract dates and relevant titles. The project was awarded **Best Use of Google Cloud 1st Place** at HackTX 2021

**Culinaid:** Mobile application, using NCR APIs, built to recommend recipes based off of the items added / scanned in-store to the user's cart, in addition to the user's transaction history and the store items' popularity. Culinaid also provides the location of the ingredients of each recipe in the store for a seamless consumer experience

**xInst:** A compiler written in C++ for Little, a simple domain-specific language to generate x86 code

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, Go, C/C++, C#, Solidity, HTML/CSS

**Frameworks:** ReactJS, React Native, Redux, Node.js, Express.js, Next.js, NestJS, Flask

**Technologies:** SQL, MongoDB, Postman, AWS, Docker, MATLAB, LaTeX, NumPy, Scikit-learn, Matplotlib, Pandas, Keras, NLTK, OpenAI Gym, Git, Linux