

# THANEESH B. KRISHNASAMY

Atlanta, GA

+1 (470) 815-3918

thaneesh@gatech.edu

thaneeshbabu

thaneesh-babu

thaneeshbabu.me

## EDUCATION

### Georgia Institute of Technology

August 2021 – May 2025

*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

May 2023 – Present

*Incoming Undergraduate Teaching Assistant*

Atlanta, GA

- Design of Operating Systems

### Ibotta, Inc.

May 2023 – Present

*Software Engineer Intern*

Denver, CO

- Developing dashboards for clients to view performance metrics of their campaigns on the Ibotta cash-back platform
- Building a serverless backend architecture using AWS Lambdas, DynamoDB and Terraform

### 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, as part of the Convenience, Fuel and Retail team, to support faster software and config downloads by forecourt services, migrating from RCM, a single-tenant architecture
- 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 just a few seconds

### HexLabs, Inc.

December 2021 – Present

*Co-Director of Technology*

Atlanta, GA

- Leading the technology team, building dozens of full-stack applications 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

**Wizard:** Developed an app that gamifies LLM training by having players label data through interactive games involving classification, recognition and entity extraction tasks. Incorporated a scoring algorithm that incentivizes high-performing users with potential monetary compensation, while also meeting the data labeling requirements of companies

**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

## 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