

THANEESH B. KRISHNASAMY

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🌐 thaneeshbabu.me

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, Machine Learning, Artificial Intelligence, Systems & Networks, Computer Organization, Linear Algebra, Applied Combinatorics, Statistics & Applications

EXPERIENCE

Georgia Tech College of Computing

August 2023 – Present

Undergraduate Teaching Assistant

Atlanta, GA

- Teaching Assistant for Operating Systems, covering concepts such as memory management, file systems, process scheduling, multi-threading and more
- Holding office hours for 120+ students, grading labs and writing C autograder unit tests

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

- Building a hybrid GPU-SSD simulator for In-Storage GPU architectures to test novel storage and GPU-level scheduling to maximize GPU performance and bandwidth
- Implemented a modified Linux kernel-based I/O scheduler, ParDispatcher, in combination with SBIOS algorithm, reducing average SSD response time by 24%

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 microservices 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, C/C++, JavaScript, TypeScript, Go, 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