

THANEESH B. KRISHNASAMY

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EDUCATION

Georgia Institute of Technology

M.S. in Computer Science, Machine Learning

January 2025 - December 2025

Atlanta, GA

Georgia Institute of Technology

B.S. in Computer Science, Cumulative GPA: 3.96 / Major GPA: 4.0

August 2021 - December 2024

Atlanta, GA

Concentrations: Artificial Intelligence, Systems/Architecture

Relevant Coursework: Algorithms Honors, Data Structures, Operating Systems, High Performance Architecture, Machine Learning, Artificial Intelligence, Systems & Networks, Computer Organization, Combinatorics, Statistics

Leadership: Teaching Assistant for Operating Systems (August 2023 - Present)

EXPERIENCE

Nutanix, Inc.

Software Engineer Intern

May 2024 – August 2024

San Jose, CA

- Developed test infrastructure ensuring seamless integration of new CPUs with Nutanix's hypervisor
- Automated the testing of CPU PState, CState, and thermal attributes, significantly reducing manual testing efforts
- Contributed to the development of a read-only root hypervisor using overlaysfs, improving system security and stability

Ibotta, Inc.

Software Engineer Intern

May 2023 – August 2023

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 E2E latency
- 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 120%

Georgia Tech High Performance Architecture Lab

Undergraduate Research Assistant

January 2023 – May 2024

Atlanta, GA

- Built a simulator to model the performance of GPU-Initiated SSD Access architectures, including micro-architectural behaviors and per-request metrics
- Implemented an SSD-based block I/O scheduler with higher bandwidth than traditional Out of Order algorithms for compute-intensive workloads by 7%
- The queuing architecture uses red black trees at chip granularity to reduce cross block penalty and GC overhead

NCR Corporation

Software Engineer Intern

May 2022 – August 2022

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
- 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.

Co-Director of Technology

December 2021 – December 2023

Atlanta, GA

- Led 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