THANEESH B. KRISHNASAMY

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EDUCATION

Georgia Institute of Technology **August 2021 – December 2024**

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

Concentrations: Intelligence, Systems and 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 High Performance Architecture Lab **January 2023 – Present**

Undergraduate Research Assistant *Atlanta, GA*

- Developing scheduling strategies for In-Storage GPU architectures to maximize performance and memory management.

Innovation Lab, 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
- Setup authentication and authorization with NCR's BSP layer, replicating RCM's organizational structure
- 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*

- Lead contributor in building comprehensive backend API using Node.js/Express.js/MongoDB, integrating several services under a microservice architecture
- Developing registration system for university-wide hackathons (HackGT) and school events, reaching 4000+ students
- Created and reviewed several admin-side frontend features for testing, reducing registration development time by 30%

IT Board, Georgia Tech Student Government Association **September 2021 – January 2022**

Backend Developer, Course Critique Team *Atlanta, GA*

- Maintained Course Critique's backend, Georgia Tech's grade distribution platform, serving 10000+ students
- Developed robust algorithms to maximize accurate matches between input searches and existing data
- Wrote scripts to scrape and parse the latest professor and course information

PROJECTS

Revix **Python, Tensorflow, Keras**

Designing a model that produces electronic dance music similar to your favorite artists, using a multi-scale VQ-VAE and autoregressive transformers. Trained on music samples of various genres and artists in EDM, the model produces new samples of the user's liking, ranked dynamically based on their favorite tunes

DayMaker **ReactJS, Express.js, Node.js, MongoDB, NLP, Google Cloud**

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, and our team is currently working on building DayMaker without Google's services

Culinaid **NextJS, Python**

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

Certifications: Introduction to Machine Learning (Duke University - May 2021), Competent Communicator (Toastmasters International - June 2019), Summer Artificial Intelligence Camp (UAE Government - July 2018)