

# THANEESH B. KRISHNASAMY

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## EDUCATION

### Georgia Institute of Technology

August 2021 – December 2024

*Bachelor of Science in Computer Science - GPA - 4.0/4.0*

Atlanta, GA

**Concentrations:** Intelligence, Systems and Architecture

**Relevant Coursework:** Data Structures and Algorithms, Systems and Networks, Computer Organization and Programming, Linear Algebra, Discrete Mathematics, Statistics & Applications

## EXPERIENCE

### 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

### Caproxy

ReactJS, Solidity, Blockchain

Blockchain application that allows users to perform transactions on the Ethereum network, using a React frontend, Solidity smart contracts and MetaMask to interact with the blockchain

### DreddIT

ReactJS, Flask, NLP, RedditAPI

NLP model that performs sentiment analysis on the comments of a user-entered number of posts within a searched subreddit, generating plots describing the subreddit's sentiment over numerous features, rendered on a React application and backed by a Flask server

## 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)