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 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**
Software Engineer   *Atlanta, GA*

- Revamping the registration system and admin dashboard for university and high school hackathons (HackGT, Catalyst)
- Lead contributor in building HexLabs' new backend microservice API that supports all of its frontend applications
- Using React, Express, Node, MongoDB, and GraphQL to develop related web projects, reaching 1000+ students

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
- Developed robust algorithms to maximize accurate matches between input searches and existing data
- Serves 10,000+ students in planning out their semesters, providing the latest course and professor 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, the model aims to produce new samples of the user's liking

DayMaker   **ReactJS, Express.js, Node.js, SQL, 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)