Rithvik Rajavelu

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
M.S. in Computer Science, GPA: 3.75 — *Aug 2023 – May 2024*
B.S. in Computer Science, GPA: 3.72 — *Aug 2020 – May 2023*
M.S. Specialization: Interactive Intelligence; **B.S. Concentrations:** Intelligence and People

EXPERIENCE

NCR Atleos — Atlanta, GA
Software Engineer II — *Aug 2024 – Present*
- Processed and analyzed over 185,000 contracts by developing an automated data ingestion pipeline for extracting critical contract attributes such as renewal dates and payment terms.
- Reduced processing time from 1 hour for 50 documents to 17 minutes for 100 documents, achieving a 7x efficiency improvement, while also greatly expanding on previous capabilities, using Azure OpenAI, LangChain, and Docker.
- Worked in a cross-functional capacity with legal and sales team to identify key performance indicators and then designed and implemented a Retrieval-Augmented Generation (RAG) system and an intuitive UI to assist in generating new contracts and negotiating sales terms, the system uses PostgreSQL for efficient data storage and retrieval and Vercel AI SDK for a responsive front-end experience.

Amazon — Palo Alto, CA
Software Development Engineering Intern — *May 2023 – Aug 2023*
- Reduced model parameter retrieval time by 30% and improved result efficiency by 15% for Amazon Search UI's ML service through the development of a Java-based debug tool.
- Launched and maintained the debug tool on Amazon's internal servers, resulting in its adoption by over 20 Search team engineers and facilitating enhanced debugging for ongoing projects.
- Optimized the performance and scalability of the debug tool, enabling it to support additional ML-based services, which increased its usage by 10% and improved service compatibility for evolving search technologies.

Publicis Sapient — Atlanta, GA
Software Engineering Intern — *May 2022 – Aug 2022*
- Cut ad campaign launch times by 25% for 20+ marketing campaigns by spearheading the design and development of an automated campaign management system using React and Spring Boot.
- Deployed a web app on Azure Kubernetes with Azure Monitor analytics, creating a dashboard now tracking metrics for 500+ users daily, resulting in a 30% increase in campaign performance tracking efficiency.
- Collaborated with cross-functional teams to understand and define the requirements of Ahold Delhaize, a leading multinational retail conglomerate, resulting in enhanced advertising operations.

PROJECTS

- **ReliefLink:** Used Flutter to revamp an old suicide awareness application by making the app more responsive and providing increased functionality. Also improved user retention and satisfaction by adding features such as a journal, relief techniques, guided meditations, and more. This project placed first in CS Capstone Design Expo at Georgia Institute of Technology Fall 2022.

- **ASL-to-Text Chat Bot:** Project for Transatlantic AI Hackathon; Used Python with TensorFlow to build a program that could recognize hand motions and output sentences with proper grammar, paired this capability with a chat bot that was made using Node.js that took in the output to automatically send/display the message.

- **Aesthetic Image Generation:** Developed a scalable, interactive interface for searching high-quality AI-generated images using Python to generate image aesthetic assessment scores, enabling efficient discovery and exploration of images and insights into effective prompt writing for text-to-image generative models.

SKILLS & ACHIEVEMENTS

Languages:	Python, Java, C, C++, C#, SQL, JavaScript, HTML/CSS, LaTeX
Tools:	Jupyter Notebook, Docker, MySQL, NoSQL, Git, MongoDB, S3, Databricks, Scala
Frameworks:	React, Node.js, Flutter, Spring, Kubernetes, GCP, AWS, Azure, D3, Spark, Angular, EC2
Achievements:	Eagle Scout, 1st Place CS Capstone Design Expo, ADP Henry Taub Memorial Scholar