Viren Mirchandani

virenmirch@gmail.com • linkedin.com/in/viren-mirchandani • github.com/07virmir • virenmirch.vercel.app

EDUCATION

Georgia Institute of Technology Atlanta, GA
Master of Science in Computer Science; GPA: 3.87 *Aug. 2023 – May 2024*

Georgia Institute of Technology Atlanta, GA
Bachelor of Science in Computer Science; GPA: 3.65 *Aug. 2020 – May 2023*

EXPERIENCE

AnswerRocket Atlanta, GA (Remote)
Software Engineer Intern *May 2023 – Aug. 2023*
- Developed and deployed a **Retrieval-Augmented Generation (RAG)** conversational agent using **Azure OpenAI** and **Cognitive Search**, **reducing Confluence documentation search time** by **80%**
- Integrated **Power BI Embedded** into AnswerRocket's platform using **Python**, **React.js**, **Java** and **MongoDB**
- Streamlined **report embedding** and **dynamic filter application** utilizing **Power BI's REST and Client APIs**, enhancing data visualization in the chat interface and achieving a **feature adoption rate** of **65%**
- Built **backend infrastructure** to query **OpenAI's Completions API**, incorporating **prompt engineering** techniques to **improve response accuracy** by **30%**

Edge Computing at Georgia Tech EPL Atlanta, GA
Undergraduate Research Assistant *Aug. 2022 – Dec. 2022*
- Engineered **low-cost edge cluster-system architecture** composed of **Raspberry Pis** and **Coral TPUs** for **low-latency** and **scalable** camera processing
- Benchmarked **transfer learning** with **TensorFlow Lite** models, **improving inference times** by **150%**
- Refactored **latency-critical** parts of code from **Python** to **C++**, resulting in **10-fold performance increase**

NCR Corporation Atlanta, GA
Software Engineer Intern *May 2022 – Aug. 2022*
- Developed **Slack bot** using **Node.js** and **GraphQL** to **present real-time data** insights from NCR's BSL **APIs**
- **Trained Google Dialogflow** for precise intent recognition and parameter matching with **90% accuracy**
- **Automated API support** issue resolution, yielding a **100% reduction** in team **on-call responsibilities**
- Deployed bot on **Kubernetes**, utilizing **Helm Charts** for streamlined **cloud-native** administration

PROJECTS

Pitch Perfect | *Python, PyTorch* *Feb. 2024 - Feb. 2024*
- Built a soccer position **prediction system** using a **custom-built LSTM** model with **teacher forcing**
- Utilized the **Manim library** to **dynamically visualize** position predictions through animated videos

Stock Comparison Dashboard | *Python, SQL, React.js, d3.js* *Oct. 2023 – Dec. 2023*
- Built **stock correlation analysis** tool featuring interactive **heatmaps** and **technical indicator visualizations**
- Optimized data processing with **SQLite** and **Flask**, utilizing **caching** to slash query times to ∼**1 second**

Automated Grocery Ordering | *Python, Firebase* *Aug. 2023 – Sep. 2023*
- Developed and deployed a real-time collaborative grocery list app with **Streamlit** and **Flask**
- Integrated **Kroger and Splitwise APIs** for item availability, automatic cart addition, and expense tracking

Muscle | *Swift, UIKit, Firebase* *Jan. 2022 – Apr. 2022*
- Created an **iOS app** that offers users a dynamic music-themed guessing experience inspired by Wordle
- Utilized the **Spotify API** and **Firebase** to retrieve and **efficiently store** comprehensive song information
- **Won first place** at GT iOS Club Demo Day for **best app** based on user experience, innovation, and design

SKILLS

Coursework: Machine Learning, Deep Learning, Data Structures & Algorithms, Networking, Blockchain & Crypto
Programming: Java, Python, Kotlin, Swift, Scala, C, C++, JavaScript, TypeScript, Solidity, SQL, GraphQL
Frameworks: React.js, Node.js, d3.js, React Native, UIKit, Flask, Streamlit, TensorFlow, PyTorch, Apache Spark
Tools: Git, Jira, Jupyter, Firebase, MongoDB, MySQL, Docker, Kubernetes, Google Cloud, Azure