Vishak Vikranth

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EDUCATION

The University of Alabama, Tuscaloosa, AL

Bachelor of Science in Computer Science	Dec 2025
Bachelor of Science in Mathematics	Dec 2025

Minor: Actuarial Science

GPA: 4.0

WORK EXPERIENCE

Backend Engineering Intern   June 2024-August 2024

Shipt. Inc., Birmingham, AL

- Designed and developed a **GoLang** backend to manage delivery windows, providing exclusive visibility to delivery routes from over **10 Target sortation centers** across the US
- Migrated scheduling service to a standalone service, enhancing flexibility by transitioning scheduling from zones to individual stores
- Resolved bugs to ensure accurate consumption of multiple **Kafka** topics, enabling the program to effectively handle Delivery Service Partner orders

Data Analyst Intern   September 2023-May 2024

Mal Moore Athletic Facility, University of Alabama, Tuscaloosa, AL

- Led the simulation of NCAA golf tournaments using **Python**, involving over **200 Division 1 athletes**, and created visualizations in **Tableau** to provide coaches with optimal strategies for the SEC and NCAA championships
- Conducted analysis on ticket transfer data to identify broker activity, uncovering insights projected to drive over **$3 million in additional revenue** through increased ticket sales.

PROJECTS

Courage, The Not So Cowardly Rover │C#, Python, Unity

- Developed an educational game that simulates controlling a Mars rover with realistic weather and terrain conditions using NASA's API
- Implemented unique NPC interactions using large language models (LLMs) and prompt engineering

ReCall│Python, SQL, React

- Developed an innovative software solution using smart glasses for early-stage dementia patients, enabling users to store details and receive reminders about people they meet, fostering social connectivity. Reduces functional decline in users by **10%** among users through interaction
- Designed a medical professional dashboard using **React** that offers real-time user data and insights, enhancing diagnostic accuracy and personalized care.

RESEARCH EXPERIENCE

Database Management │ R   January 2024 – June 2024

- Managed a database of marine organism data to develop a website using **R** Shiny to visualize and derive insights
- Led the automation of a data pipeline to process marine microorganism data collected along the East Coast

EEG Data analysis using LLMs │ Python   August 2023 - Present

- Utilizing Microsoft Autogen and LIDA to develop software agents for automating EEG data analysis
- Collaborated with health experts to fine-tune the OpenAI GPT-3.5 model, developing an SMS software to track eating habits through tailored prompts

KEY SKILLS

- **Languages** - Python, Java, Go, C/C++, SQL, NoSQL, R, C#, JavaScript, HTML, CSS, React
- **Developer Tools** – Docker, Kafka, Google Cloud Platform, Kubernetes, Postman, Unity, Terraform, .NET, Node.js
- **Libraries** – FastAPI, SQLAlchemy, NumPy, Scikit-Learn, Pandas, PyTorch, TensorFlow, Hugging Face, CUDA
- **Other Technologies** – Git, REST APIs, Linux, Unix

AWARDS

- "Best Hack in Health Management" track and "Best Tech-Enabled Patient Safety Solution" at HackPrinceton
- 2nd place at International Collegiate Programming Contest Southeast Regional Division 2 – 2023