Sanket Doddabendigere

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Education

University of Virginia School of Engineering & Applied Science | Charlottesville, VA   *Aug 2022 – Present*
B.S in Computer Science, Minor in Data Science, 3.8 GPA   Expected Graduation: May 2026

Experience

TechSur Solutions | Herndon, VA   *Jun 2024 – Aug 2024*
Software Engineering Intern
- Developed and enhanced an RAG-based chatbot using Vue.js, TypeScript, and React, configuring AI models to efficiently retrieve information from USCIS knowledge bases summing to 7000+ documents, boosting content retrieval speed by 40%
- Engineered a task event service microservice using Spring Boot and PostgreSQL to manage task lifecycles and workflows, supporting 500+ tasks, which increased process efficiency and task management by 25%
- Enhanced the Task Event Service by updating the database schema, integrating optimistic locking for version control, and developing new API endpoints to manage task states dynamically, ensuring robust data integrity and concurrent handling

CargoLabs | Charlottesville, VA (Remote)   *Jun 2024 – Aug 2024*
Software Engineer
- Enhanced the front-end interface of Coverport, a FinTech platform for the trucking industry, using TypeScript, Next.js, and React, improving user experience and interaction with insurance product offerings
- Implemented new API endpoints and restructured the backend architecture using AWS and MySQL, enabling insurance sellers to provide customized quotes directly, boosting platform efficiency and increasing quote conversion rates by 50%
- Contributed to and improved the company's landing page, enhancing overall branding and user engagement through refined design and content updates

NiyamIT| Fairfax, VA (Remote)   *Feb 2024 – Present*
IT Assistant
- Utilized OpenAI API to automatically gather and parse information on state employment laws, streamlining data entry and management in Excel through Python scripting
- Researched and implemented Strapi CMS as the backend for the company's website, developing the frontend with JavaScript and React, enhancing site functionality and user experience

Projects

Reel Recommender | *Python, Streamlit*   *Jan 2024*
- Engineered a movie recommender system implemented with content-based filtering and cosine similarity algorithms in Python, utilizing a dataset of 10,000+ values, and enabled users to search for specific movies, with the system returning a list of recommendations
- Employed the Streamlit library to design an intuitive front-end interface, facilitating user-friendly movie searches within the extensive dataset

Stock Bot | *Python, React, Flask, JavaScript*   *Fall 2022*
- Employed natural language processing APIs such as NLTK and machine learning models to train models in producing predictions based on live stock market data and news headlines about stock market trends and individual firms
- Developed the frontend using React and JavaScript, utilized Python and Flask for backend operations and data analysis

Relevant Coursework

- Algorithms, Software Development Essentials, Data Systems, Probability, Computer Systems and Organizations, Data Structures and Algorithms, Discrete Math and Theory, Linear Algebra, Ordinary Differential Equations, Physics 2

Skills

Programming Languages: Python, Java, TypeScript, JavaScript, SQL, C#, C, HTML, CSS
Tools and Technologies: React, Node.js, Git, GitHub, Spring Boot, AWS, MongoDB, Docker, Neo4j, NLTK, TensorFlow, Arduino
Professional Organizations: Business and Artificial Intelligence Club, Project Code, National Eagle Scout Association, Data Science and Analytics Club, Indian Student Association, Venture Scouts of America
Interests: Hiking, Soccer (Manchester United), Skateboarding, Photography, Travelling, Music, Cooking