

Sanket Doddabendigere

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Education

University of Virginia School of Engineering & Applied Science | Charlottesville, VA

Expected Graduation: May 2026

B.S in Computer Science, Minor in Data Science, 3.8 GPA

Relevant Coursework: Algorithms, Advanced Software Development Essentials, Data Systems, Probability, Computer Systems and Organizations, Data Structures and Algorithms, Discrete Math and Theory, Linear Algebra, Ordinary Differential Equations

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

- Implemented new API endpoints and restructured the backend architecture using AWS and MySQL, enabling over 10,000 insurance sellers to provide customized quotes directly, boosting platform efficiency and increasing quote conversion rates by 50%
- 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, resulting in a 40% increase in user engagement
- Contributed to and improved the company's landing page, enhancing overall branding and user engagement through refined design and content updates

Niyam IT | Fairfax, VA (Remote)

Feb 2024 – Present

Software Developer

- 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

- 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

- 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

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