Sanket Doddabendigere

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EDUCATION

University of Virginia — Charlottesville, VA
Bachelor of Science in Computer Science, Minor in Data Science, GPA: 3.8 — *Aug. 2022 – May 2026*
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

Software Engineering Intern — Jun. 2024 – Aug. 2024
TechSur Solutions — *Herndon, VA*
- 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

Software Engineer — Jun. 2024 – Aug. 2024
CargoLabs — *Charlottesville, VA (Remote)*
- 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 CoverPort's front-end using TypeScript, Next.js, and React, boosting user experience and interaction with insurance products, leading to a 40% increase in engagement
- Contributed to and improved the company's landing page, enhancing overall branding and user engagement through refined design and content updates

Software Developer — Feb. 2024 – Present
Niyam IT — *Fairfax, VA (Remote)*
- 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 integrated Strapi CMS as the backend for the company's website, developing a seamless frontend with JavaScript and React that improved load times by 35% while enhancing overall user engagement

PROJECTS

Pep Talk | *Python, Flask, React, ChromaDB, Amazon S3*
- Developed an interactive RAG chatbot with Flask and React, offering personalized soccer tips inspired by coaches like Pep Guardiola, Sir Alex Ferguson, Arsene Wenger, and Johan Cruyff, featuring a dynamic front-end interface
- Integrated ChromaDB and Amazon S3 for secure file storage, managing 12,000+ documents to deliver real-time coaching insights with scalable performance

HoosConnect | *Django, Google OAuth, Amazon S3, HTML/CSS*
- Engineered a full-stack Django platform for 25,000+ UVA students, integrating Google OAuth and Amazon S3 to enable secure file sharing and collaboration across student organizations
- Built a multi-tier user system with role-based access, enabling leaders to manage projects, track progress, and coordinate activities via a dynamic interface with real-time updates

SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL, C#, C, HTML/CSS
Tools and Technologies: React, Node.js, Git, GitHub, Spring Boot, AWS, MongoDB, Docker, Neo4j, TensorFlow
Organizations: Business and Artificial Intelligence Club (Project Lead), Student Hip Hop Organization (Lead Event Coordinator) National Eagle Scout Association, Data Science and Analytics Club, Indian Student Association
Interests: Hiking, Soccer (Manchester United), Skateboarding, Photography, Travelling, Music, Cooking