Vasu Singh

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EDUCATION

Georgia State University — Atlanta, GA
Bachelor of Science in Computer Science and Economics (Double Major) — *Aug 2022 – Expected May 2026*
- Honors College — GPA: 4.11/4.0 — President's List
- Relevant Coursework: Data Structures, Operating Systems, Software Development, Design Analysis and Algorithm, Fundamental of Data Science, Database Systems

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, WordPress
Developer Tools: GIT, Docker, TravisCI, Django, Kubernetes, VS Code, PyCharm, IntelliJ, Eclipse
Libraries: Pandas, NumPy, Matplotlib, Open AI, TensorFlow

PROJECTS

Smart Home Automation Simulator | *Flask, React, Docker, JWT* — *Dec 2024 - Present*
- Developed a simulated IoT-based smart home system using Flask for backend APIs and React for frontend UI.
- Implemented secure authentication mechanisms using JWT (JSON Web Tokens), improving system security by 20%.
- Simulated real-time IoT device behavior, allowing users to control and monitor thermostats, lights, and security cameras.
- Integrated real-time APIs to fetch weather data, enabling automated smart home responses based on environmental conditions.

Stock Market Sentiment Analysis — *Python, NLP, Financial APIs* — *Aug 2023 - Dec 2023*
- Automated stock data collection using financial APIs such as Yahoo Finance, reducing manual data retrieval by 50%.
- Performed sentiment analysis on financial news and tweets using NLP libraries like VADER and TextBlob.
- Designed a real-time data pipeline to analyze stock price movements and feed results into sentiment analysis models.
- Created data visualizations using Matplotlib and Seaborn to identify trends in market sentiment.
- Deployed the pipeline to generate actionable insights assisting in investment decision-making through machine learning.

EXPERIENCE

Classroom Support Technician — August 2023 - Present
Robinson College of Business, Atlanta
- Automated data management tasks using Python scripts, improving data accuracy and efficiency by 20%.
- Developed scripts for system monitoring and automation, reducing manual workload and improving IT response times.
- Provided software troubleshooting and debugging support for faculty and staff, ensuring seamless classroom operations.
- Assisted in deploying and maintaining computer systems and networks, ensuring reliable functionality across classrooms.
- Supported software installation, upgrades, and compatibility testing, ensuring seamless integration with existing IT infrastructure.

Software Development Intern — May 2023 - August 2023
3B HealthCare Ltd, India
- Developed and deployed data management solutions using Flask for backend and React for frontend, streamlining healthcare workflows.
- Utilized Python, R, and SQL to clean, analyze, and model large datasets, generating actionable insights for decision-making.
- Designed and implemented interactive dashboards using Tableau and Power BI, enabling stakeholders to visualize trends.
- Engineered API integrations for secure exchange between healthcare systems, reducing manual processing time by 35%.
- Optimized database queries to improve data retrieval, enhancing scalability and performance of healthcare applications.

LEADERSHIP & INVOLVEMENT

Finance Chair, Indian Cultural Club — May 2023 – Present
Georgia State University — *Atlanta, GA*
- Managed $10,000+ in event funding and secured sponsorships, ensuring successful large-scale cultural events with 600+ attendees. Organized fundraising initiatives to support club operations and enhance community engagement.

Organizing Committee Member, Model United Nations — Aug 2022 – Present
Georgia State University — *Atlanta, GA*
- Coordinated logistics for the GSUMUN Conference, organizing a 500+ delegate event, ensuring smooth execution.
- Represented GSU at national conferences, training delegates in policy research, debate, and diplomatic negotiations.