

Vasu Singh

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SKILLS

Technical -

Languages: Python | Java | HTML | SQL | CSS | R | C

Frameworks: Flask | React | Django

Developer Tools: GIT | MATLAB | VS Code | PyCharm | AWS | Kubernetes | MS Office

Libraries: Pandas | NumPy | Matplotlib | OpenAI | TensorFlow

Economics Skills - Data Analysis | Quantitative Analysis | Market Research | Financial Modeling

Soft skills - Problem-solving | Strategic Thinking | Team Leadership | Fluent Communication

EDUCATION

Georgia State University, Atlanta, GA

2022 - (2026)

Bachelor of Science in Computer Science and Economics | GPA - 4.17

- Honors College
- Econometrics | Macro and Micro Economics | Data Structures | System-level Programming | Software Development | Operating Systems | Computer Organisation and Programming
- Fundraising Chairperson for the Indian Cultural Club at GSU.

EXPERIENCE

Classroom Support Technician - Robinson College of Business, Atlanta

August 2023 - Present

- Provided technical support, resolving complex software and hardware issues, ensuring seamless classroom and administrative operations.
- Automated data management tasks using Python scripts, enhancing data accuracy and improving efficiency by 20%.
- Assisted in deploying and maintaining computer systems and networks, ensuring reliable functionality
- Supported the setup and breakdown of technological equipment for events, ensuring smooth execution

Software Management Intern - 3B HealthCare Ltd, India

May 2023 - August 2023

- Developed and deployed data management solutions using Flask and React frameworks, streamlining healthcare workflows and enhancing operational efficiency.
- Utilized Python, R, and SQL to clean, analyze, and model large datasets, generating actionable insights that influenced marketing strategies, product development, and resource allocation.
- Designed and implemented interactive dashboards using Tableau and Power BI, enabling stakeholders to visualize trends and make data-driven decisions in real-time.
- Conducted financial modeling and quantitative analysis to evaluate operational costs and forecast revenue, applying economic principles to optimize resource allocation and strategic budgeting.

PROJECTS

Smart Home Automation Simulator

- Designed a smart home system using IoT principles, reducing manual setup time by 30%.
- Implemented Flask backend and React UI, enhancing data reliability and user interaction efficiency
- Integrated real-time APIs and secure authentication, boosting system security by 20%.
- Simulated device behavior under varying conditions, improving system adaptability for diverse user needs.

Stock Market Sentiment Analysis -

- Automated social media and stock data collection via APIs, reducing manual effort by 50%.
- Analyzed sentiment with VADER and TextBlob and visualised insights using Matplotlib and Seaborn
- Visualized insights with Matplotlib and Seaborn, improving decision-making efficiency
- Developed a real-time pipeline to process and analyze data, giving timely insights for market decisions