Rohan Singh

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EDUCATION

University of Virginia — Charlottesville, VA
Bachelor of Science in Computer Science and Data Science — GPA: 4.00 — *Aug. 2024 – May 2026*
- Relevant Coursework: Machine Learning, Computer Systems and Organization, Discrete Math, Linear Algebra

University of Wisconsin-Madison — Madison, WI
Bachelor of Science in Computer Science — GPA: 3.73 — *Sep. 2023 – May 2024*
- Relevant Coursework: Data Structures, Data Science, Computer Engineering

EXPERIENCE

Software Engineer Intern — June 2024 – Aug 2024
Cubic Corporation — *Ashburn, VA*
- Led the full lifecycle of a user guide website project, including research, development, design, and hosting, using Docusaurus and React, resulting in a 350% improvement in user navigation and an 85% reduction in support tickets.
- Implemented a pull request builder with AWS CodeBuild that ran ESLint tests on code, ensuring quality and consistency with every pull request.
- Managed version control and deployed updates using GitHub, enhancing update accuracy by 35% and reducing downtime incidents by 20%.
- Collaborated with cross-functional teams to gather requirements and incorporate user feedback, continuously improving the user guide.

Fullstack Software Engineering Intern — Jan. 2024 – May 2024
USCHO — *Remote*
- Spearheaded the development of an intuitive user interface for a high-traffic website, significantly enhancing the user experience for a monthly audience of over 1,000,000.
- Led the creation of a headless WordPress application utilizing Vue.js, Laravel, and Inertia.js, streamlining content management and improving site performance.

PROJECTS

Stock Prediction and Analysis Tool — Sep 2023 – Present
- Developed a stock prediction model using K-Nearest Neighbors (KNN) to predict future stock prices and classify buy/sell signals, utilizing Quandl for data fetching and preprocessing with pandas and NumPy.
- Achieved a classification accuracy of over 85% on the test set and a Root Mean Squared Error (RMSE) of 0.02 for regression predictions.
- Visualized stock price data and prediction results using Matplotlib, providing clear insights into model performance and stock trends.

CERTIFICATIONS

Oracle Cloud Infrastructure 2024 Generative AI Professional — Jul 2024
Microsoft Certified: Azure AI Fundamentals — May 2024
PCAP: Certified Associate Python Programmer — Apr 2023
Microsoft Certified: Azure Fundamentals — Feb 2023
Amazon Web Services Cloud Practitioner — Jan 2021

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, HTML/CSS, SQL
Frameworks: React, Node.js, Vue.js, Laravel, Bootstrap
Libraries: Pandas, NumPy, Scikit-Learn, TensorFlow, Keras, PyTorch
Tools & Platforms: Git, Docker, Kubernetes, Terraform, AWS, Azure, GCP, VMWare, Postman
Database Management: MySQL, PostgreSQL