Shaan Sriram

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EDUCATION

Purdue University West Lafayette, IN
Bachelor of Science in Computer Engineering, Minor in Mathematics *Aug. 2022 – May 2026*

EXPERIENCE

Equity Research Analyst September 2024 – Present
Quorica Capital *London, UK*

- Conduct in-depth financial analysis and market research to evaluate performance and potential of companies across various industries, providing actionable insights for investment strategies.
- Prepare detailed equity research reports and present findings to stakeholders, highlighting key trends, risks, and opportunities to inform data-driven investment decisions.

Project Manager & Lead Developer January 2024 – Present
Scope Consulting *West Lafayette, IN*

- Created a web scraper with custom FastAPI endpoints using Python and Selenium to aggregate housing data from Zillow.
- Built a dynamic React.js application to display aggregated data with a Python-based backend.
- Delivered a complete housing data aggregation and display solution to the client, resulting in a drastic improvement in operational performance.

Software Engineering Intern June 2024 – August 2024
REI Systems *Sterling, VA*

- Developed an AI chatbot using a RAG model with LangChain and Pinecone, enhancing conversational intelligence and data retrieval with 98% accuracy.
- Designed and implemented a dynamic ReactJS frontend, delivering a highly responsive and intuitive user experience while ensuring OAuth integration for robust security.
- Built custom APIs using FastAPI to seamlessly integrate the ReactJS frontend with a Python backend, ensuring efficient data flow and real-time processing.

Machine Learning Engineer August 2022 – December 2022
Howmet Aerospace *West Lafayette, IN*

- Developed and optimized machine learning regression and classification algorithms to identify anomalies in X-Ray images, enhancing detection accuracy.
- Implemented Sobel Filters and calculated image cropping parameters using image processing techniques to optimize anomaly detection in medical imaging.

PROJECTS & EXTRA CURRICULARS

Chair of Web Development | *Zope, Python, Git* January 2023 – Present

- Developed the website for the premier Electrical & Computer Engineers student society at Purdue using Zope and Python.
- Responsible for executive club duties, including project delegation and the creation of educational content to support the club's initiatives.
- Lead web development training for other members, teaching key concepts and techniques to enhance technical skills.

Algorithm Developer | *MATLAB, Differential Equations, Linear Algebra* August 2023 – December 2023

- Utilized Ordinary Differential Equations (ODEs) and matrix manipulation techniques to develop a MATLAB algorithm for extracting critical vehicle parameters from raw data.
- Developed a linear interpolation-based algorithm to process data efficiently and improve accuracy in identifying key performance metrics.

TECHNICAL SKILLS

Languages: Java, C/C++, Python, SQL (Postgres), JavaScript, HTML/CSS, MATLAB
Frameworks: React, Node.js, Flask, LangChain, FastAPI
Developer Tools: Git, VS Code, PyCharm, Eclipse
Libraries: pandas, NumPy, Matplotlib, MongoDB