

# ANSHUL SHAH

📞 972-948-7760

✉ [shahanshul@gmail.com](mailto:shahanshul@gmail.com)

🌐 [linkedin.com/in/anshul-shah2](https://www.linkedin.com/in/anshul-shah2)

🐙 [github.com/shahanshul8052](https://github.com/shahanshul8052)

## Education

**Purdue University: Bachelor of Science in Computer Science**

**August 2022 — May 2025**

*Concentration in Machine Learning/AI, Minor in Management*

*West Lafayette, Indiana*

**Relevant Coursework:** Data Structures and Algorithms, Computer Architecture, Intro to AI, Analysis of Algorithms, Operating Systems, Database Systems, Systems Programming, Linear Algebra, Data Visualization, Data Mining and Machine Learning

## Work Experience

**Teaching Assistant (TA)**

**August 2024 – Present**

*Purdue Computer Science*

*West Lafayette, Indiana*

- Led labs for **CS193: Tools** and **CS252: Systems Programming**, covering **Unix/Linux**, **shell scripting**, **Git/GitHub**, **system calls**, and **socket programming**.
- Held office hours and graded assignments on topics such as **process management**, **file systems**, **multithreading**, and **debugging tools**.

**Research Assistant**

**September 2023 – May 2024**

*Purdue University - Mitch E. Daniels School of Business*

*West Lafayette, IN*

- Used **NLP techniques** on a dataset of 1000+ financial articles to analyze Federal Reserve announcements and their effects on economic indicators like employment and inflation.
- Applied **Python and machine learning** libraries to extract insights about **sentiment analysis** and **market reactions**.

**Machine Learning Intern**

**September 2022 – August 2023**

*AppUnik - AI Solutions and Predictive Models*

*Remote*

- Developed and deployed an **LLM-based recommendation system** using fine-tuned models like GPT, delivering personalized content suggestions.
- Built end-to-end AI pipelines integrating **TensorFlow**, **PyTorch**, and **Hugging Face Transformers** for text and image-based tasks.

**Software Engineering Intern**

**August 2022 – May 2023**

*Battelle - Algorithm Development for Biodetection Platform*

*West Lafayette, IN*

- Developed **Python-based hazard detection models**, improving accuracy by **25%** while reducing false positives by **20%**.
- Collaborated with cross-functional teams in an **AGILE environment**, ensuring timely delivery of features.

## Projects

**Fantasy Premier League AI Chatbot** | *Python, Flask, SQLite, Selenium, Pandas*

**Dec 2024 – Jan 2025**

- Built an AI chatbot recommending players using **Python** for **data processing**, **Selenium** for **web scraping**, and **SQLite** for database management.
- Designed **Flask APIs** and **data pipelines** for predictive player insights.

**Personal Portfolio Website** | *React, CSS, IntersectionObserver API*

**Dec 2024**

- Developed a responsive portfolio using **React.js**, **CSS**, and **IntersectionObserver API** to showcase **projects** and **skills**.
- Incorporated reusable **React components** for scalability.

**Custom Shell Implementation** | *Lex, Yacc, C++*

**Mar 2024 – Apr 2024**

- Created a **Unix-like shell** in **C++** with **piping**, **I/O redirection**, and **background processing**.
- Enhanced usability with **signal handling** and **process management**.

**Library Management System** | *Node.js/Express, React, MySQL*

**Feb 2024 – Apr 2024**

- Developed a full-stack app using **React.js**, **Node.js**, and **MySQL** to manage **1,000+ records**.
- Implemented secure **REST APIs** for CRUD operations.

## Technical Skills

**Languages:** Python, Java, C++, JavaScript, SQL, NOSQL, TypeScript, R

**Frameworks/Libraries:** React.js, Node.js, Express.js, TensorFlow, PyTorch, Flask, Bootstrap, Pandas, NumPy, scikit-learn

**Tools:** Git, Postman, Docker, Jupyter Notebook, AWS (S3, Lambda), Firebase, MongoDB, MySQL