

Vijay Vittal

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Education

Purdue University, West Lafayette, Indiana

B.S. in Computer Science & Data Science

Expected Graduation, May 2026

- Concentrations: Software Engineering and Machine Intelligence
- GPA: 3.58/4.00, Dean's List
- Related Coursework: Data Structures & Algorithms, Objects & Design, C Programming, Software Engineering, Object-Oriented Programming, Statistics & Applications, Probability

Experience

Software Engineering Intern, Beck's Hybrids, West Lafayette, Indiana

May 2024 – Present

- Developed and cast interactive *Dash* applications, including scatter plots, tables, and boxplots, to a *React* frontend using *Flask*, enhancing the dashboard usability for 200+ users.
- Integrated machine learning models into the web application to process and generate predictions from uploaded CSV data along with *Azure SQL Storage* for efficient storage and retrieval of CSV files and *Redis/Celery* for task scheduling.
- Seamlessly integrated *RESTful APIs* into the application, rigorously testing with Postman to ensure reliability, resulting in a 65

Research Assistant, Purdue Partnership with City of Lafayette, West Lafayette, Indiana
Present

August 2022 –

- Capitalizing on web scraping using *Selenium* for dynamic JavaScript webpages to automate data collection and deriving relevant information on affordable housing and eviction data from over 3000 houses.
- Leveraged Tableau visualizations to a web application using *Node.js* and *React* and stored data into a *mysql database* which will be presented to Lafayette community leaders.
- Presented work in Rotterdam, the Netherlands at International Society for Quality-of-Life Studies Conference 2023 to an audience of over 300 professors and scholars.

Data Analyst Intern - DORIS, Remote

May 2023 - August 2023

- Created *Python* scripts and *SQL* queries from over 4,000,000 data points to update workplace analysis and visuals in reports to 5 different clients of DORIS, optimizing data retrieval time by 30

Projects

Wisebucks.AI

Aug 2023 – Present

- Enhanced Wisebucks.ai, a FinTech platform leveraging diverse financial data for portfolio predictions, using advanced techniques such as *LLMs* and *Monte Carlo* analysis.
- Employing LLMs like *Huggingface* for updated news sentiment analysis and leveraging *Monte Carlo analysis* to allow for predictive analysis for each stock.
- Won 6000 from the Purdue Entrepreneurship Center and were 1 of the 10 teams selected for Boiler Launch, a startup competition

NBA Vision Fantasy

April 2024 – June 2024

- Engineered a comprehensive data scraping of match statistics for 300+ players using *Python* and *pandas*, followed by dynamic manipulation and presentation of the data through a *Spring Boot* application.
- Implemented real-time data manipulation within a *Postgres* database through the effective use of *SQL* queries, establishing a seamless integration with a user-friendly *ReactJS* interface.

Marketplace Application (Object-Oriented Programming - Java) October 2022 – December 2022

- Created a comprehensive interface for a marketplace, empowering sellers to manage stores, products, and view statistics, while enabling buyers to browse products, add to cart, and complete purchases.
- Developed a server-side component and utilized multithreading, facilitating communication between the client and server.

Skills

Programming: Java, Python, Go, JavaScript, HTML/CSS, SQL, Node.js, React.js, MATLAB, C++, C, Swift (iOS)

Tools: VSCode, IntelliJ, PyCharm, Android Studio, Eclipse, Azure, AWS, Jupyter Notebooks, Git, Bootstrap, Spring Boot, Agile