Veer Jain

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EDUCATION

Purdue University, West Lafayette **May 2026**
***B.S.* in Computer Science** **GPA: 4.0**
***B.S.* in Artificial Intelligence** **Dean's List**

Certifications: Generative AI for Software Development (DeepLearning.AI, May 2024); AWS Cloud Solutions Architect (Amazon, August 2024); Object Oriented Programming in Java (Duke University and UC San Diego, December 2023)

Skills: Python, Java, C#, C, C++, Docker, SQL, Jira, AWS, Git, Linux, ML Models, LLM, NLP, OpenAI API, RESTful API, Firebase Authentication API, Pytorch, JavaScript, Typescript, Node.js, React.js, MongoDB, UML, Go, Postman, Raspberry Pi.

PROFESSIONAL EXPERIENCE

Textron Systems – Defense and Aerospace Technology Firm; *Software Engineer Intern* **Summer 2024**

- Designed scalable software architecture for a hovercraft training simulator for the U.S. Navy, utilizing Docker and Kubernetes for container orchestration, and collaborated with engineering teams in Agile workflows.
- Developed adaptive threat detection algorithms using machine learning, advancing large software system capabilities. Resolved critical bugs in an Electronic Warfare Simulator and manipulated data using mySQL workbench.
- Addressed and resolved multiple software bugs within a U.S. aircraft simulator (C-17), strengthening system stability (Linux Environment) and performance. Utilized static code analysis and automated testing frameworks.
- Single-handedly designed and deployed an AI-powered Python tool with Natural Language Processing to automate data extraction from PDFs to Excel, saving 100+ hours monthly and transforming it into a crucial company asset.

Morningview Technologies – Software Consulting Firm; *Software Engineer Intern* **Fall 2021 – Fall 2023**

- Automated cost-effective flight searches for a Fortune 100 company across airlines and nearby airports using Python and Selenium, reducing manual search time by 40%.
- Engineered and maintained a web-based timesheet management system using Java Eclipse, SQL, Linux, JavaScript, HTML, and CSS, increasing data entry efficiency by 25%.
- Built RESTful APIs for creating, submitting, editing, and deleting timesheets, leveraging Go, AWS EC2, and Docker.

RESEARCH EXPERIENCE

John Deere – Manufacturing and Agtech; *ML Research Engineer Intern.* **Fall 2023 – Spring 2024**

- Implemented a Parts Demand Forecasting Tool leveraging Python, Pytorch, and machine learning models to predict demand for part-location combinations, resulting in a 15% reduction in excess inventory.
- Researched supply chain optimization, predictive analysis, time series forecasting methods, and data cleansing.

Tufts University –Research Program; *Undergraduate Researcher* **Summer 2023**

- Collaborated with Tufts professors to apply machine learning models to analyze Boeing plane wing aerodynamics.
- Assisted world-renowned engineers and learned how to apply engineering theory to real world problems.

SOFTWARE ENGINEERING ACTIVITIES

PaySplit App – Shared Expense Tracking App; *Full-Stack Developer* **Spring 2024 – Current**

- Developed a cross-platform mobile app for IOS and Andorid using Kotlin/Java, Swift, and React Native, designed to simplify expense tracking for college students.
- Implemented RESTful APIs for secure data management, user authentication, and real-time expense updates, leveraging Firebase Authentication and Typescript for smooth front-end and back-end communication.
- Designed and developed intuitive UI/UX interfaces based on mobile design principles to ensure seamless user experience and efficient navigation.
- Collaborated using Git for version control, adhering to Agile methodologies for iterative development.

Purdue Hackers – Student Organization; *Secretary* **Fall 2023 – Current**

- Created an artificial intelligence-based voice command system, integrating OpenAI's API with Raspberry Pi to engineer a virtual assistant, recognized by Purdue CS Faculty.
- Energized the organization by orchestrating dynamic meetings, facilitating effective communication, and coordinating innovative events, boosting member engagement and collaboration by 25%.
- Educated 50+ students on NLP concepts, applications, and future trends through an informative presentation.