Veer Jain

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EDUCATION

Purdue University, West Lafayette, IN **Fall 2026**
B.S. in Computer Science & Artificial Intelligence (Double Major) **GPA: 3.8, Dean's List**

Certifications: Generative AI for Software Development from DeepLearning.AI, AWS Cloud Practitioner Essentials, Azure AI: Computer Vision

Skills: Python, Java, C++, C, C#, Docker, SQL, Jira, AWS, Azure, Git, Swift, Kotlin, NVIDIA CUDA, Tableau, RESTful API, Firebase Authentication API, Pytorch, TensorFlow, JavaScript, Node.js, React.js, MongoDB, Linux, React, Cassandra.

PROFESSIONAL EXPERIENCE

Lockheed Martin – World's Largest Defense and Aerospace Technology Firm **Summer 2025**
Software Engineer Intern

- Co-developed a large-scale defense-grade prototype of a shoulder-launched, AI-driven target tracker in under 8 weeks.
- Engineered a high-performance data processing pipeline in Python and Apache Spark with real-time streaming, integrating ML inference modules for accurate detection under constrained runtime.
- Implemented a feature-based algorithm to detect small targets (≤ 2 km) and pipelined its outputs to a multi-object tracker over Apache Kafka, cutting missed detections by 25%.
- Developed a full-stack web application (C#/.NET backend, TypeScript/React frontend) for missile launch simulation, while leveraging REST API design and multi-threaded processing.
- Supported end-to-end ML lifecycle on Azure with guidance from senior engineers—training and validating on real-world flight datasets, and automating testing to reduce testing duration from 4 days to 3 hours, utilizing Gitlab CI/CD pipelines.

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

- Architected scalable software design 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 ML-based threat detection algorithms and resolved critical bugs in an Electronic Warfare Simulator, leveraging MySQL, MongoDB and static code analysis tools, reduced false positive alerts by 35%.
- Single-handedly built and deployed an AI-powered NLP tool to automate PDF-to-Excel data extraction, saving 100+ hours monthly and becoming a key company asset.

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

- Designed a scalable task scheduling framework leveraging advanced data structures such as priority queues and graph-based scheduling algorithms to optimize workload distribution, increasing throughput by 40%.
- Engineered a web-based timesheet management system and built RESTful APIs for creating, submitting, and editing entries using Java, JavaScript, SQL, Go, AWS EC2, and Docker—boosting data entry efficiency by 50%.

RESEARCH EXPERIENCE

John Deere – Ag-Tech Manufacturing Leader **Fall 2023 – Spring 2024**
ML Research Engineer Intern

- Implemented a Parts Demand Forecasting Tool leveraging Python, Pytorch, and machine learning models such as linear regression 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.

SOFTWARE ENGINEERING ACTIVITIES

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

- Built a React Native iOS/Android app to streamline college expense tracking among peers, backed by secure RESTful APIs with Firebase Authentication for real-time data sync, utilizing Kotlin/Java, Swift, AngularJS, and NodeJS.

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

- Built an AI voice-assistant using OpenAI's API—earning Purdue CS faculty recognition—while driving a 25% boost in member engagement through event coordination and delivering an NLP workshop to 50+ peers.