

JIA BHAVESH KESARIA

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EDUCATION

University of Wisconsin - Madison

Bachelor of Science in Computer Science and Data Science

GPA: 3.8/4.0 – Dean's List for Academic Excellence

Sep. 2024 – May 2027

Madison, WI

EXPERIENCE

Customer Success Software Engineer Intern

LambdaTest Inc.

June – August 2025

Remote — San Francisco, CA

- Designed a **Retrieval-Augmented Generation (RAG)** pipeline (**FAISS + LLaMA3.2-3B**) enabling semantic Q&A over **30k+ docs** with **<1.5s latency**.
- Optimized LLM inference with **QLoRA** fine-tuning, cutting GPU memory use by **40%** while sustaining **95%** task accuracy.
- Built a **full-stack AI prototype** (**Next.js, Tailwind, FastAPI**) adopted by internal teams, demonstrating end-to-end product development from ingestion to deployment.

PrEPS Facilitator – Undergraduate Learning Center

University of Wisconsin–Madison

August 2025 – Present

Madison, WI

- Lead **Math 113** PrEPS sessions, facilitating small-group problem-solving and delivering mini-lectures to strengthen student understanding of foundational concepts.
- Enrolled in a tutor development course covering **active learning, research-based strategies and effective feedback** to enhance facilitation skills.

Software Developer Intern

Damacloid Technologies pvt ltd.

April 2021

Mumbai, India

- Automated banking workflows by converting raw data into **Java model files**, reducing manual data entry by 30+ hours weekly for a major Indian bank.

PROJECTS

Postura | Full-Stack + ML

Aug 2025

- Developed a **real-time posture correction app** using **MediaPipe (33 keypoints)** + **custom ML models** reducing form errors by **25%** in pilot tests.
- Implemented an **exercise library (10+ movements)** with **rep counting, scoring** and instant **audio/visual feedback** to improve usability.
- Built **cross-platform prototypes**: Streamlit + FastAPI web app and iOS SwiftUI app, tested with **20+ users** for accuracy and usability.

Campus Path Finder | Java, JavaFX, Git

April — May 2025

- Built a **shortest-path desktop app** for **50+ campus locations** using **Dijkstra's algorithm** with **sub-second response times**.
- Designed a **modular UI** (GraphCanvas, ControlPanel, ResultsPanel) to enhance usability and support **future feature expansion**.

COURSES & CERTIFICATIONS

Machine Learning Specialization

DeepLearning.AI, Stanford University

Jun 2025 – Jul 2025

Online

- Implemented supervised and unsupervised ML algorithms in **Python** using **NumPy, scikit-learn**, and **TensorFlow** (**regression, decision trees, clustering, anomaly detection**).
- Built **recommender systems**, multi-class **neural networks**, and **reinforcement learning agents** for real-world tasks.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, Swift, SQL, R, HTML/CSS

Frameworks & Libraries: FastAPI, TensorFlow, scikit-learn, NumPy, Pandas, MediaPipe, FAISS, Next.js, Tailwind, Streamlit, JavaFX

Developer Tools: GCP, GitHub, GitLab, Linux/Unix, VS Code, IntelliJ, PyCharm, Xcode, Jupyter, Colab