

Arnav Jain

jainarnav07@gmail.com

(479) 360-8798

www.linkedin.com/in/arnav-jain07

EDUCATION

Georgia Institute of Technology | Atlanta, GA

Grad May 2028

Bachelor of Science in Computer Science

GPA: 4.00/4.00

Bentonville West High School | Centerton, AR

Grad May 2025

Ignite Professional Studies: Technology

GPA: 4.58/4.00

Certifications: Google Data Analytics, March 2025 | Google IT Support, February 2024 | Autodesk Fusion Certified, May 2023

Coursework: Object-Oriented Programming, Data Structures and Algorithms, Computer Organization and Programming, Discrete Math, Linear Algebra, Integral Calculus, Intro to Prog Logic 1 and 2, Hardware and Software Networking Support, Computer Science Principles, Computer Science A, Calculus AB, Statistics, Physics 1, Physics 2, US History, World History, Environmental Science

TECHNICAL SKILLS

Java, Python, JavaScript, React.js, GraphQL, SQL, Bash, Git, Docker, AWS, PyTorch, TensorFlow, Pandas

RELEVANT EXPERIENCE

Machine Learning Intern

Jan 2025 – May 2025

Walmart Global Tech

Bentonville, Arkansas

- Engineered and deployed machine learning models—**Random Forest Regressor, XGBoost, and LSTM**—to predict product demand with increased precision, **boosting forecast accuracy by 20%** and informing inventory decisions.
- Conducted end-to-end **data pipeline development**, cleaning and transforming a dataset of 25,000+ records using **Pandas, NumPy, and SQL**, and executed comprehensive **feature engineering** and **EDA** to optimize model performance.

Machine Learning Intern

Jan 2024 – May 2024

Walmart Global Tech

Bentonville, Arkansas

- Audited and validated **product attribute data** across a catalog of **10M+ SKUs**, ensuring high data quality and integrity critical to Walmart's e-commerce search and recommendation systems.
- Designed and deployed **hybrid validation systems** combining **rule-based logic** and **Large Language Models (LLMs)** (e.g., GPT-based) to automate attribute verification, improving operational efficiency and accuracy by **up to 28%**.

PROJECTS

CourtSideIQ — ML-Powered Basketball Injury Risk Platform

Feb 2026

- Built a **full-stack NBA analytics platform** modeling workload, playstyle, and contact-based injury risk and minute optimization for NBA players, integrating **Next.js 14, TypeScript, Tailwind CSS, Python, scikit-learn, and NBA API** to compute **real-time player risk scores** and **visualize historical trends** and feature importance for team-level decision support.
- Integrated **in-browser video analysis** with **MediaPipe WebAssembly** for **pose estimation, biomechanical metrics, jump detection, and fatigue indicators**, and created **interactive dashboards** showing risk trends and schedule stress.

Social Walking App

Jun 2023 – Aug 2023

- Designed and built a **location-based fitness app** that dynamically generates multiple walking routes based on user-selected **endpoints and target calorie expenditure**, using geolocation APIs and custom routing algorithms.
- Integrated a **social layer** by displaying active users along selected paths and highlighting frequent travelers, fostering community engagement and encouraging consistent physical activity through **real-time presence detection**.

Grand Savings Bank Business Project

Aug 2024 – Dec 2024

- Created a **goal-setting feature** using **Flutter** that integrated seamlessly into the bank's existing app interface, enabling users to **visually track financial goals** with interactive elements—designed to boost financial literacy and engagement among users.
- Developed a **gamified mock banking app** that combined financial education with game mechanics, offering an immersive experience where users explore banking concepts through play; contributed to a **2nd place finish** in a **\$5,000 competition**.

LEADERSHIP/EXTRACURRICULARS

Student Council: All Student Body Treasurer and Class Representative

Aug 2022 – May 2025

- Orchestrated events for Bentonville West High School such as Homecoming and Colors Day
- Helped lead class meetings, ensured member participation, and managed the \$10,000 plus in funds.

West Leadership Organization: Volunteering Guide

Aug 2022 – May 2025

- Encouraged kids to partake in their community through volunteering and increased club participation by 23%
- Supervised a middle school stall during Bentonville School District Choose Love Event and led Freshman Orientation

Musician: Piano and Clarinet (Apr 2016 – Jul 2025) | **Sports:** Varsity Tennis (Aug 2021 – May 2025), Swimming (Aug 2016 – Jun 2023)