Aaryan D. Wadhwani

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EDUCATION

Purdue University | Dean's List (All Semesters) — Aug 2023 - Dec 2026
Triple Major: B.S. Computer Science, B.S. Applied Statistics & B.S. Artificial Intelligence — *GPA: 3.93/4.00*
Minor: Mathematics | Certificate: Applications in Data Science — *West Lafayette, IN*
Coursework: Algorithm Analysis, Systems Programming, Machine Learning, Real Analysis, Linear Algebra, Probability
Skills: C++/C, Python, Java, JS/TS, Bash, SQL, React, FastAPI, TensorFlow, FAISS, Redis, Git/GitHub Actions

EXPERIENCE

Software Engineering Intern — May 2026 - Aug 2026
Google — *Kirkland, WA*
- Research efficient cache eviction policies for Memstore, serving 200+ customers and ∼600M QPS (Summer 2026)!

Undergraduate Data Scientist — Aug 2025 - May 2026
Microsoft — *West Lafayette, IN*
- Architected an AI-powered Minecraft Creator Development Platform for non-technical users, leveraging Model Context Protocol (MCP) to interface LLMs with local game files, achieving a 40% increase in LLM stability.
- Engineered a "One-Click" Add-on Workspace and AI-driven code analysis tools, increasing development efficiency by 30%, and mitigating an annual estimated $31,200 per power user through AI-automated troubleshooting.

Project Manager - ManglarIA — Aug 2025 - May 2026
World Wildlife Fund — *West Lafayette, IN*
- Mentored 10+ multidisciplinary students to build a GCP Data Lakehouse for mangrove conservation, integrating Earth Engine with BigQuery and deploying Vertex AI pipelines for causal modeling and sensor health monitoring.
- Coordinated bi-weekly plans using agile practices to define deliverables, track progress, and ensure execution.

Undergraduate Teaching Assistant — Aug 2025 - May 2026
Purdue University - CS 38100, CS 34800 | Previously: CS 25100, CS 25300 — *West Lafayette, IN*
- Authored project specifications, grading rubrics, and instructional resources to improve coursework.
- Facilitated 800+ students in mastering core computer science concepts through PSO sessions, office hours, and hands-on guidance, along with grading over 200+ assignments all on a weekly basis.

Software Engineering Intern — May 2025 - Aug 2025
Uniloy — *Tecumseh, MI*
- Developed an internal issue-tracking journal and incorporated a fully local RAG pipeline (FAISS, MiniLM, Ollama) to accelerate troubleshooting and reduce repeat queries.
- Automated global translation setup with Python scripts, cutting localization effort by over 65%.
- Implemented a lightweight server to enable live communication (∼0.1s) between incompatible control systems.

Undergraduate Research Assistant - AVL Fast-Hash — Oct 2024 - May 2025
Dr. Gustavo Rodriguez-Rivera | Computer Science Department — *West Lafayette, IN*
- Optimized a cache-aware AVL tree achieving 1.3×–2.1× speedups and memory usage over standard C++ implementations on benchmarks with over 500,000 keys using modern computer architecture.
- Integrated AVL-based buckets into hash tables (AVL Fast-Hash) guaranteeing worst case $O(logn)$ operations.

Data Engineering Intern — May 2024 - Aug 2024
LTIMindtree — *Mumbai, India*
- Deployed Redis-backed caching layer for SharePoint search, cutting median latency 28% for ∼ 2k daily users.
- Introduced CI workflows with GitHub Actions, cutting post-merge defects by 35% and accelerating deployment.

Undergraduate Data Scientist — Aug 2023 - May 2024
Caterpillar — *West Lafayette, IN*
- Scraped, cleaned, and joined over 60 years of global supply-chain data (2,000,000x40 entries) on 7+ key indicators.
- Trained PyCaret + Prophet pipeline approximating project related risks based on this 60-year series.
- Delivered an interactive PowerBI dashboard delivering live data, and real-time feedback about supply chain issues.

PROJECTS

StockSage AI | Python, TensorFlow/Keras, scikit-learn, Prophet, NLTK/TextBlob — Mar 2025 - Jul 2025
- Built an ensemble forecasting pipeline (LSTM, XGBoost, ARIMA) with 10+ indicators (e.g. RSI, MACD, Bollinger Bands), achieving 89.5% accuracy, and 5% above the best single model.
- Incorporated live sentiment scoring (NLTK/TextBlob) using NewsAPI, boosting model performance by 30%.

Systems Projects | C, C++, Bash, Flex, Bison — Sept 2024 - Apr 2025
- **POSIX Shell**: implemented job control, pipelines, background execution, subshells, wildcard expansion, tab completion, and command history; passed 78 unit tests with 100 % success.
- **C Compiler**: parses C code, and generates x86-64 Assembly achieving times 5-15% faster than GCC and Clang.