Hitansh Mendiratta

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EDUCATION

Texas A&M University — **College Station, Texas**
Bachelor of Science in Computer Science, University and Engineering Honors, 3.9 GPA — *May 2028*

SKILLS & CERTIFICATIONS

Programming Languages: Python, Java, JavaScript, TypeScript, Next.js, C++, Haskell, HTML, CSS
Frameworks, Tools & AI/ML: React, Streamlit, Three.js, Svelte, Git, Linux, Agile/Scrum, PyTorch, Scikit-learn, Whisper, ONNX
Cloud & Database: AWS S3, Apache Cassandra, NoSQL, SQL
Software Development: OOP, SDLC, SDD, Multithreading, Version Control, Debugging
Certifications: AWS S3 Basics, Python Data Structures, Programming for Everybody (Python), Machine Learning with Python
Courses: Data Structures and Algorithms, Computer Organization, Linear Algebra, Intro to Computer Systems, Software Engineering
Interests: Equity markets and macroeconomic trends; active independent stock analysis

PROFESSIONAL EXPERIENCE

Dell Technologies Internship — **Austin, Texas**
Software Engineering Intern — *May. 2026 – Aug. 2026*

- Re-architected a 25 year old **38,000** line workspace tool into a **10,000** line **C** application using GTK 4, adding **Linux (WSL)** support, and consolidating **60+** terminal workflows into a single-window app with **19** one-click actions, eliminating **60+** minutes/day of work
- Delivered an end-to-end **Kiwi ISO** build modernization (**Jenkins CI/CD**) via **spec-driven development**, migrating a hardcoded production job to version-controlled, parameterized pipeline with automated branch-aware builds and staging-triggered deployments.
- Developed **AI-assisted** automation solutions: a **Python** orchestrator tracking live agent credit usage via lifecycle hooks, and a **TypeScript** overseer agent auto-approving safe operations and blocking risky ones in real time, improving efficiency by **34%**

JP Morgan Chase Internship — **Houston, Texas**
Software Developer & Scrum Master — *Jun. 2023 – Aug. 2023*

- Automated transfer of **100+ Cassandra** tables to **AWS S3 (Java**, **Parquet)**, enabling scalability and reducing query latency by **40%**.
- Optimized software pipeline performance through **multithreading**, data serialization, and efficient resource management
- Authored technical documentation for **Apache Cassandra** installation, reducing developer onboarding time by **50%.**
- Led **Agile Scrum** meetings for **8** developers, ensuring on-time deliverables and consistent sprint velocity.

PROJECTS

DatathonLite | 3rd Place — *Apr. 2025*

- Achieved Top **3** finish out of **40+** teams by developing an AI-driven game simulation analyzer that extracted precise audio timestamps using **OpenAI Whisper,** improving insight accuracy by **30%.**
- Built visualization pipeline that decoded hidden patterns in data using **Gemini** and **Pandas**, helping judges interpret insights quickly.

Cabin Connect | TAMUhack | Best Use of Cloudflare Winner — *Jan. 2025*

- Built an **in-flight infotainment system** enabling synchronized video, live chat, and **3D flight tracker** using **Three.js, Threlte, HTML, CSS, and Svelte**, rendering **10K+ polygons** at **60FPS,** earning recognition for commercial potential.
- Delivered a polished demo to 5 industry experts, securing a category win over **700+** competitors with a **97%** flawless execution rate.

Roni Metrics — *Nov. 2024*

- Designed a customer analytics platform that surfaced sales patterns from **280,000+ rows**, delivering real-time insights via Streamlit.
- Developed **SARIMA** predictive models at **82%** accuracy, improving stakeholder decision-making with interactive tools.

Trash Tide — *Oct. 2024*

- Built a **Flask** web application that predicts ocean trash locations based on **120** years of NOAA ocean current and wind pattern data.
- Integrated **CNN + LSTM** models to forecast future trash concentrations using date, time, and GPS coordinates.
- Implemented interactive map visualization with **Folium/Leaflet**, displaying trash hotspots and nearest ports.

Seamless Neural Artificial Intelligence Capture | Aggie Coding Club — *Sep. 2024 – Dec. 2024*

- Collaborated with 15+ teammates to build a Raspberry Pi app that tracks objects in real time from a live camera feed using Scikit-learn and ONNX.
- Linked detected objects to digital records in real time, demonstrating a practical edge-AI application with a seamless user experience.

LEADERSHIP & INVOLVEMENT

MSC Aggie Leaders of Tomorrow (MSC ALOT) — **College Station, Texas**
TEDxTAMU Director Of Operations | TEDxTAMU Marketing Team — *Sep. 2024 – May 2026*

- **Directed** production operations, served as **Emcee**, coached speakers, coordinated with 15+ peers to deliver a seamless event.
- Advertised **TEDxTAMU** leading to **280+** speaker nominations, **300+** attendance, and **1.5x** followers on Instagram.