

# ADITYA VERMA

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## EDUCATION

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### Bachelor of Science Computer Science Data Science (Minor)

Arizona State University, Tempe, AZ

Scholarship: New American University (\$54,000 Merit Award)

Relevant Coursework: Data Structures & Algorithms, Database Systems, Artificial Intelligence Systems, Software Engineering, Machine Learning

May 2027

3.50 GPA

## TECHNICAL SKILLS

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**Programming Languages:** Java, Python, C, C++, HTML, SQL, JavaScript, Typescript

**Frameworks & Tools:** Git, GitHub, React.js, Next.js, CSS, DSA, Tailwind CSS

**Machine Learning:** PyTorch, TensorFlow, ML pipelines, Model Inference, LLMs, RAG

**Design & Modeling Tools:** Microsoft Office Suite, Adobe Creative Suite, UX/UI

**Cloud & DevOps:** AWS (EC2, S3, Lambda, IAM), Docker, CI/CD, Supabase

**Platforms:** Linux, Windows, MacOS

## WORK EXPERIENCE

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### Software Engineering Intern, Blue Ocean Biotech, AP, India

May 2025 – Aug 2025

- Developed **Java-based backend services and REST APIs** to automate production and inventory workflows, improving operational data visibility by **50%**.
- Built **data ingestion pipelines using Python and SQL** to process QA telemetry and production metrics, reducing manual data entry by **40%**.
- Designed **automated reporting pipelines** generating operational analytics in real time, reducing reporting latency from **2 hours to 10 minutes**.
- Implemented **Git-based CI workflows and modular code architecture**, improving deployment reliability and team collaboration.

### Virtual Reality Simulation Assistant (SW III), College of Health Solutions, Phoenix, AZ

Aug 2024 – Dec 2024

- Engineered **C++ simulation modules** in the SimX VR training engine, optimizing physics and scene loading performance by **35%** for real-time medical simulation environments.
- Designed and deployed **immersive 3D environments** in Unity, enhancing trainee engagement by **40%** and increasing realism through advanced lighting and animation systems.
- Diagnosed and resolved hardware and software issues across VR simulation systems, ensuring uninterrupted operation for 500+ training sessions.
- Authored a 25-page **technical onboarding manual** for moderators and new hires, cutting ramp-up time by **50%** and improving procedural consistency across simulations.

## PROJECTS

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### Splitz: Full-Stack AI Expense Splitting Platform, Personal Project

Aug 2025 – Nov 2025

- Architected a **real-time distributed transaction system** supporting **2–20 concurrent users** with **sub-100ms synchronization latency**.
- Implemented a **graph-based debt simplification algorithm** reducing settlement transactions by **60%**.
- Built scalable **Next.js + Convex backend architecture** supporting real-time event processing and settlement tracking.
- Developed a **Python-based ML pipeline** to analyze user spending patterns and generate predictive financial insights.

### CareerLens: Full-Stack AI Career Coach Platform, Personal Project

Nov 2025 – Feb 2026

- Built a full-stack AI career coaching platform delivering personalized dashboards with **role-specific skill demand and salary trend analysis**.
- Implemented AI-powered resume and cover letter generation with **30–40% improved ATS keyword alignment** through job description analysis.
- Developed an AI mock interview system that evaluates responses, tracks **performance trends over time**, and generates targeted improvement feedback.
- Designed a scalable Next.js 15 application with event-driven AI workflows with openAI API, reducing perceived latency by **~60%**.
- Implemented **ML-driven analysis** of job descriptions to extract required skills and align resumes with ATS keywords.

### Stealth: AI Internship/Job Radar Platform, Personal Project

Feb 2026 – Apr 2026

- Built an AI-powered internship discovery platform using Next.js, TypeScript, and Supabase to match students with high-fit opportunities.
- Developed web scraping pipelines with Playwright and BeautifulSoup to collect and structure job listings from company career portals.
- Integrated LLM-based resume analysis and semantic job matching to generate personalized opportunity scoring and skill insights.
- Designed a premium, minimalist SaaS dashboard with responsive UI, smooth animations, and modern UX using Tailwind CSS and Framer Motion.

## CERTIFICATIONS AND PUBLICATIONS

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- YouTube Channel Creator: Grew a 3D animation channel to **15K+ subscribers** and **1.5M+ views** using Blender and Unreal Engine.
- Adobe Creative Suite Portfolio: Designed **50+ motion graphics and visual assets**, showcasing creativity and technical skill.