Aditya Jadhav

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Skills

- **Programming Languages:** Python, Java, C++, C, JavaScript, HTML, CSS
- **Frameworks & Libraries:** React, Node.js, FastAPI, PyTorch, TensorFlow, NumPy, Pandas
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** Git, Linux, Windows, AWS, Docker, IBM Cloud, VS Code, Cursor, Figma
- **Core Concepts:** Object-Oriented Design, Data Structures & Algorithms, REST APIs, Debugging, Software Testing

Experience

IT Security Programmer (Enterprise IT - ITS) — **San Diego, CA**
University of California, San Diego — Dec 2025 - Present

- Built and maintained Python-based automation pipelines and SQL workflows to process and validate enterprise system data across legacy and modern platforms, reducing manual review effort by 30% and improving operational reliability.
- Authored and validated RESTful application components supporting internal security services, producing 20+ automated test cases and technical specifications to strengthen system maintainability and audit readiness.

Web Development Intern — **Dallas, TX**
NutrifitWorld — Jun 2025 - Oct 2025

- Delivered and deployed a responsive business platform integrating CRM automation, scheduling, and customer management workflows, increasing client engagement by 25% and reducing manual operations by 40%.
- Created analytics dashboards and automated marketing pipelines to track user behavior and campaign performance, improving lead conversion rates by 20% through data-driven optimization.

Projects

AI-Powered Travel Planning Platform | Python, React, TypeScript, FastAPI, LangGraph, Docker, NATS, Grafana — **Jan 2026**

- Led end-to-end design and implementation of a distributed, AI-powered travel planning platform, orchestrating 4+ autonomous agents using FastAPI and LangGraph to generate personalized itineraries for 50+ active users.
- Engineered scalable REST APIs and containerized 6+ microservices using Docker and NATS, reducing inter-service latency by 40% and enabling real-time performance monitoring through ClickHouse and Grafana.

AI Chat Assistant | IBM Cloud, Watson Assistant, Node.js, Express.js, JavaScript, JSON — **Jul 2025**

- Designed a cloud-based conversational assistant using IBM Watson Assistant and Node.js, implementing intent classification and dialogue management to handle 150+ test queries with 90%+ response accuracy.
- Improved API throughput and server-side workflows on IBM Cloud Functions, reducing average response latency by 15% and increasing system reliability under concurrent usage.

Portfolio Website | React, Vite, JavaScript(ES6+), HTML5, CSS3, GitHub Pages, Git, Figma — **Jun 2025**

- Developed a high-performance personal portfolio using React and Vite, implementing modular components, dark and light theming, and accessible navigation for enhanced user experience.
- Enhanced client-side performance and SEO through asynchronous API integration and asset optimization, improving page load times and overall site responsiveness.

Education

Bachelor of Science in Computer Science — **University of California San Diego**
Relevant Coursework: Network Security, Cryptography, Machine Learning, Advanced Data Structures — Anticipated Jun 2027

Associate of Science in Computer Science — **Irvine Valley College**
Relevant Coursework: Programming, Data Structures, Discrete Mathematics, Linear Algebra, Calculus I-III — Aug 2023 - May 2025

Certifications

Code Generation and Optimization Using IBM Granite
IBM — Issued Jul 2025

- Applied generative AI models to generate, review, and optimize production-quality code, improving development efficiency and reducing debugging and rework time.
- Designed and tested structured prompting workflows to refine AI-generated outputs, ensuring alignment with coding standards, performance requirements, and maintainability best practices.