

Adithya Sudhindra

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Education

University of Southern California

Master of Science in Computer Science, GPA: 3.67/4.0

Jan 2025 – Dec 2026

Los Angeles, CA

- Coursework: Analysis of Algorithms, Operating Systems, Information Retrieval and Web Search Engines, Machine Learning for Data Science, Foundations of AI

JSS Academy of Technical Education

Bachelor of Engineering in Computer Science, CGPA: 9.24/10.0

Aug 2019 – Jun 2023

Bengaluru, India

- Relevant Coursework: Data Structures, Web Technology, Mobile Application Development, Database Management Systems, Big Data Analytics, NOSQL Database

Experience

Mercedes-Benz Research and Development India

Consultant (Software Developer)

Jul 2023 – Dec 2024

Bengaluru, India

- Designed, implemented, and deployed **15+** full-stack features for a large-scale in-house Java enterprise application, utilizing technologies including **JDBC** for efficient data access, **EJB** for scalable business logic, and **Primefaces** for UI; delivering seamless backend and front-end integration for thousands of daily users
- Delivered development tasks 20–30% before **JIRA** sprint deadlines by prioritizing critical requirements, revamping sprint planning, and driving **Agile** ceremonies; accelerated release cycles, boosting team throughput by **25%**
- Adapted to and enhanced a 17-year legacy codebase, rapidly mastering complex application logic and launching new features while safeguarding all existing functionalities; preserved **100%** application integrity and enabled seamless feature rollouts
- Employed rigorous unit testing with **JUnit**, resulting in a notable reduction of post-release defects and facilitating smooth transitions for feature enhancements during QA cycles
- Engineered and launched an automated help file generation system for a large-scale enterprise application using **GPT-4o, Ada API, and Streamlit**; increased PDF help file engagement by **30%** and optimized support workflows with context-aware documentation features

BETSOL

Jun 2022 – Jul 2022

Bengaluru, India

Software Engineer Trainee

- Collaborated on Zmanda's Django-driven enterprise backup platform by fortifying backend data protection, streamlining API-driven operations, and amplifying documentation; contributed to adoption across **45+** countries and empowered secure, compliant data management for leading clients
- Executed three high-impact backend deliverables assigned by team leads, applying advanced **Django REST** Framework expertise, architecting scalable APIs, and resolving complex endpoint issues with diagnostic tools such as Postman
- Documented over **250+** endpoints in the application, providing detailed traceability across backend services and improving overall maintainability and onboarding for new team members
- Improved backend efficiency by identifying and resolving workflow bottlenecks during endpoint analysis, leading to smoother feature implementation and accelerated development cycles across the team

Projects

Operating System Development | C, Linux, x86 Assembly

- Devising and assembling core operating system features, incorporating advanced process scheduling strategies, efficient memory management, and custom system call interfaces in C and x86 assembly; ensured system robustness via exhaustive testing and low-level debugging within **Linux**

AI-Based Image Generation | Stable Diffusion, CLIP

- Reproduced Stable Diffusion using **80,000 images**, achieving coherence and accuracy competitive with original models (baseline CLIP score: 34.9-36.2; artist imitation **accuracy: 81%**). Fine-tuned pipeline to enhance text-to-image quality by 25%

Restaurant Reservation System | Django, HTML, CSS, PostgreSQL

- Modeled and developed a full-stack restaurant reservation web application using Django, integrating user authentication, booking management, and responsive interface; integrated robust CRUD operations and database models to provide real-time availability and reporting for multiple restaurants

Technical Skills

Programming Skills: Python, Java, C, C++, SQL, JavaScript, Kotlin, HTML, CSS, R

Frameworks/Tools: Django, Flask, Streamlit, Primefaces, Java EE, Maven, JDBC, Android, Git, Jira, Postman, Docker, GCP

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Hadoop

Testing and Methodologies: JUnit, Unit Testing, Integration Testing, Agile Scrum, TDD

Machine Learning Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, OpenCV, TensorFlow, Seaborn, Statsmodels, Langchain

Areas of Expertise: Full-Stack Development, Large Language Models (Gen AI), Machine Learning, Deep Learning, Microservices