

# Adithya Sudhindra

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## Education

### University of Southern California

Jan 2025 – Dec 2026

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

*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

Aug 2019 – Jun 2023

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

*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

Jul 2023 – Dec 2024

*Consultant (Software Developer)*

*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

*Software Engineer Trainee*

*Bengaluru, India*

- 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