

Adarsh Gupta

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EXPERIENCE

- **SeaArt**

Jul 2024 - Dec 2024

Software Engineer Intern

Remote, Hong Kong

- Developed scalable RESTful APIs for Flux AI image generation platform, automating image synthesis and enhancement with 75% reduction in manual processes and enabling seamless integration with the SeaArt platform.
 - Optimized TensorFlow and PyTorch AI models for high-quality image generation, achieving 40% faster rendering speeds and improved resource efficiency for thousands of concurrent users.
 - Implemented robust error handling, load balancing, and security measures through cross-functional team collaboration, ensuring 99.9% API availability during peak traffic periods.
- **Udgam - SRM University**

Jan 2025 - March 2025

Web Developer

Guntur, AP

- Led development of the official Next.js website for UDGAM national-level sports event, utilizing PostgreSQL and Redis to build a high-performance platform handling 10,000+ concurrent users with 99.8% uptime.
 - Built real-time event scheduling and participant registration systems with optimized database operations, reducing page load times by 60% and improving user registration completion rates.
 - Implemented server-side rendering (SSR), responsive UI/UX design, and performance optimization techniques to ensure fast load times and high availability during peak traffic periods.
- **Kalista**

Jan 2025 - March 2025

Web Developer

Guntur, AP

- Led development of the official Next.js website for UDGAM national-level sports event, utilizing PostgreSQL and Redis to build a high-performance platform handling 10,000+ concurrent users with 99.8% uptime.
 - Built real-time event scheduling and participant registration systems with optimized database operations, reducing page load times by 60% and improving user registration completion rates.
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EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech CSE	SRM University, Andhra Pradesh	SRM University	8.61 (Till 1st Sem)	2024-2028
Senior Secondary	VS Niketan Secondary School	National Education Board	88.88%	2024

PROJECTS

- **Smart Glasses for the Blind – AI-Driven Assistive Technology (Shortlisted for Google AI Hackathon)**

2023

Tech Stack: Raspberry Pi, Arduino, OpenCV, TensorFlow, PyTorch, Ultrasonic Sensors, Text-to-Speech, Cloud Vision API, Edge AI

Project Details

- Engineered AI-powered smart glasses achieving 95% accuracy in real-time navigation and obstacle detection for visually impaired individuals using Raspberry Pi, Arduino, TensorFlow, and OpenCV for computer vision processing.
 - Integrated ultrasonic sensors and computer vision algorithms for object recognition with 92% accuracy and text recognition capabilities, providing natural voice guidance through an optimized text-to-speech system.
 - Designed edge AI processing architecture that reduced response latency by 75% compared to cloud-dependent systems, enabling real-time environment analysis and voice-command interface with 94% accuracy in noisy environments.
- **Tickety – Scalable Ticket Booking Infrastructure**

Dec 2024 - Mar 2025

Tech Stack: Flask, PostgreSQL, Redis, Docker, Nginx, Razorpay, SQLAlchemy, Gunicorn, Microservices, Render

Project Details

- Developed high-performance ticket booking system processing 5,000+ transactions hourly with customizable event management features and automated ticket distribution workflows.
 - Implemented microservices architecture with secure payment integration (Razorpay), containerized deployment (Docker), and load balancing (Nginx) to handle peak loads of 10,000+ concurrent users.
- **Infin8t.tech – AI-Powered Customer Support Platform**

Mar 2024 - Dec 2025

Tech Stack: Flask, PostgreSQL, Redis, Docker, Nginx, SQLAlchemy, Gunicorn, Microservices, Render

Project Details

- Created no-code chatbot training platform utilizing transfer learning algorithms that reduced development time by 85% for non-technical users while achieving 90% customer satisfaction rates.
 - Designed scalable backend with Redis caching, natural language processing automation, and analytics dashboard for monitoring customer interactions and optimizing response accuracy.
- **Fortexa - A Distributed, Fault-Tolerant, Event-Driven Transaction Processing System**

Feb 2025 - OnGoing

Tech Stack: Next.js, Go, PostgreSQL + CockroachDB, Apache Kafka, Kubernetes, HSM, Prometheus + Grafana

Project Details

- Designed distributed payment processing system handling 10,000+ transactions per second with multi-region fault tolerance using Apache Kafka, PostgreSQL/CockroachDB, and Kubernetes orchestration.
 - Developed scalable API gateway and real-time fraud detection engine using Go, achieving 78% reduced latency for secure, high-throughput transaction processing in fintech applications.
 - Implemented PCI DSS-compliant transaction workflows integrating banking APIs, UPI, and card networks while ensuring secure fund settlements with 100% regulatory compliance.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, C++, Flask, Next.js, Node.js, Express.js, RESTful APIs, GraphQL, PostgreSQL, Firebase, Redis
- **AI & Systems:** TensorFlow, PyTorch, OpenCV, Natural Language Processing, Computer Vision, Edge AI, Microservices, Docker, Kubernetes, AWS, CI/CD, Load Balancing
- **Embedded & IoT:** Raspberry Pi, Arduino, Ultrasonic Sensors, Embedded AI, Text-to-Speech Systems, Edge Computing

ACHIEVEMENTS

- **Google - AI for Impact Hackathon,**Selected in top 50 projects out of 9000+ submissions worldwide2024
- **Solidius Hackathon,**First place winner in national software development competition2023