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Professional Summary

Results-driven **Software Development Engineer** with proven expertise in **scalable applications** using modern tech stacks. Proficient in **JavaScript/TypeScript, C++, and backend systems** with strong foundation in **DSA and System Design**. Seeking an SDE role to leverage technical skills in creating high-impact software products.

Experience

Software Development Intern *Infosys Springboard Oct 2024 - Dec 2024*

- Engineered a **production-grade prediction model** using Python and Scikit-learn, implementing **CI/CD pipelines** for seamless integration, resulting in **85% prediction accuracy**.
- Designed and developed a **RESTful API architecture** in Django, optimizing database queries and implementing caching strategies that improved response times by **40%**.
- Collaborated in an **Agile development environment**, participating in daily stand-ups and sprint planning while utilizing Git for version control.

Backend Developer (Freelance) *Remote 2023 - Present*

- Implemented **secure payment gateway integration** using Razorpay API with **encryption** and **proper error handling**, generating **15% revenue growth** for an e-commerce platform.
- Optimized backend performance through **code refactoring** and implementing **database indexing**, reducing API response times by **20%** and server load by **35%**.
- Deployed applications using **containerization (Docker)** and implemented **CI/CD pipelines** for automated testing and deployment.

Projects

Group Links Platform *MERN Stack Live Link — GitHub*

- Architected a **real-time communication platform** using **WebSockets**, scaling to **100+ concurrent users** with seamless messaging and group management.
- Enhanced performance by integrating **Redis** caching, optimizing MongoDB queries via **indexing**, and implementing **lazy loading** on the React frontend, reducing database response time by **40%**.
- Streamlined deployment and ensured scalability by containerizing the application with **Docker** and orchestrating continuous integration/continuous deployment (CI/CD).

Agri Assist *React Native, Express, Django-FastAPI GitHub*

- Developed a **cross-platform mobile application** in a 24-hour hackathon that integrates multiple ML models for agricultural assistance, supporting both iOS and Android platforms.
- Designed a **microservices architecture** with Express.js for user management and Django-FastAPI for ML model serving, ensuring efficient API communication between services.
- Implemented **RAG models and computer vision** for crop disease and pest detection, with offline functionality for areas with limited connectivity.

Rush Hour Treasure Hunt *React, TypeScript Live Link — GitHub*

- Engineered a **responsive event application** with React and TypeScript, implementing **client-side state management** for real-time challenges supporting **70+ concurrent participants**.
- Built sophisticated **time-blocking mechanisms** and **persistent state management** using browser storage APIs, ensuring seamless user experience even during connection interruptions.

Technical Skills

- Programming:** JavaScript/TypeScript, C++, Python, SQL
- Frontend:** React.js, Next.js, Tailwind CSS
- Backend:** Node.js, Express.js, GraphQL, RESTful APIs
- Databases:** MySQL, MongoDB, Redis
- Testing:** Postman, Unit Testing Concepts
- DevOps:** Docker, CI/CD Basics
- System Design:** Caching, Microservices, API Design

Education

B.Tech in Artificial Intelligence and Machine Learning *Sri Shakthi Institute of Engineering and Technology 2022 - 2026*

- CGPA: 7.93/10**
- Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Database Management, Computer Networks

Certifications

- Full Stack Development** – Unstop Certificate
- Generative AI Fundamentals (Infosys Springboard)** – View Certificate on LinkedIn
- Encoder-Decoder Architecture (ML Specialization)** – Google Cloud Skills Boost

Coding Proficiency

- LeetCode:** Solved 350+ problems (Data Structures & Algorithms)
- GitHub:** 60+ repositories with 500+ contributions in the last year
- Hackathons:** Finalist in National Level AI Hackathon (2025)

Leadership

Technical Workshop Facilitator *University Tech Club 2023*

- Conducted hands-on workshops on **web development** and **ML fundamentals** for 100+ students, covering project-based learning and modern tech stacks.

Projects Chair *Rotaract Club 2024 - 2025*

- Led a team of 8 members in developing a **digital management system** that automated workflows and improved operational efficiency by **30%**.

Publications & Research

- Power Consumption Analytics Using Cloud Platforms** – *International Journal of Scientific Research & Engineering Trends*, Volume 10, Issue 6, Nov-Dec 2024