

# Prathik N Software Development Engineer

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## Summary

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**Results-driven MERN Stack Developer** with 2 years of experience in building, deploying, and maintaining scalable web applications and backend systems. Skilled in **MongoDB, Express.js, React.js, and Node.js**, with hands-on expertise in **RESTful API development, real-time communication (WebSockets), and cloud deployment (AWS, Docker)**. Strong understanding of **microservices architecture, database design, and performance optimization**. Adept at working in **Agile/Scrum environments**, collaborating across cross-functional teams, and delivering **clean, maintainable, and high-performance** software solutions.

## Professional Experience

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### Software Engineer, Riversilica Technology Pvt Ltd

12/2023 – Present

- Developed and deployed high-performance backend APIs using **Python (FastAPI, Flask)** and **Node.js** to handle 10,000+ daily requests, improving system **throughput by 40%** through **event-driven architecture** and **non-blocking I/O** optimization.
- Implemented **real-time communication** with **WebSockets**, enabling **live updates** and **two-way client interactions**, which reduced data sync latency by **60%** and improved user engagement.
- Containerized and orchestrated microservices using **Docker** and **AWS ECS**, enhancing **deployment efficiency by 35%** and ensuring **auto-scalability** under variable traffic loads.
- Integrated NoSQL databases (**MongoDB**) and **Redis** to enable **high-speed caching, session management, and fault-tolerant data handling**, reducing average response times by **45%**.
- Strengthened application security by implementing **JWT-based authentication** and **secure API gateways**, ensuring compliance with **OAuth 2.0** and reducing unauthorized access attempts by **80%**.
- Built asynchronous background workers and real-time video metadata pipelines using Celery + Redis, improving data processing **throughput by 50%** and cutting response latency for clients.
- Optimized data access layers with **SQLAlchemy** and **Django ORM**, leading to **25% faster query performance** and cleaner, maintainable architecture.
- Collaborated cross-functionally in **Agile/Scrum** environments—participating in **sprint planning, code reviews, and iterative releases**—which boosted delivery velocity by **30%** and ensured continuous improvement.

## Education

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### Master of Computer Applications (MCA), University Of Mysore

03/2022 – 11/2023

- CGPA 8.6

## Skills

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React.js • JavaScript • Node.js • Python • Django • FastAPI • Flask • ORM • PyQt • celery • SQLAlchemy • Web Sockets • Rust • MongoDB • MySQL • SQL • Redis • Git • Linux • HLS • Gstreamer • FFmpeg • Docker • LLM & RAG(basic knowledge) • Object-Oriented Programming (OOP) • Data Structures & Algorithms (DSA) • RabbitMq • AWS

## Projects

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### DishHome Go (OTT) Application

03/2024 – 08/2024

- Developed a custom React-based video player integrated with **Video.js** and **Node.js** backend APIs for dynamic ad insertion, boosting ad revenue by **30%**.
- Optimized **Node.js** video content APIs and React front-end integration, improving **playback speed** and **reducing buffering time** for a smoother user experience.

### **Streamer (Live and VOD Streaming)**

09/2024 – Present

- Designed and built **React-based front-end interfaces** for seamless video playback and navigation.
- Created **Node.js** and **Python (FastAPI)** backend APIs managing sessions, playback authorization, and metadata delivery.
- **Implemented WebSocket communication** for real-time updates, enabling instant status synchronization and live notifications.
- Initiated development of an **NLP-based chatbot** for user support, automating responses using Python.

### **Videowall**

12/2023 – 05/2024

- **Built a FastAPI backend service** for real-time video control, user session management, and metadata synchronization, ensuring scalable and efficient request handling.
- **Built real-time, low-latency communication channels (Websockets)** with WebSockets for synchronized playback and status updates across multiple screens.
- **Developed a PyQt-based dashboard** integrated with the FastAPI backend and VLC libraries, capable of monitoring and controlling **320+ concurrent video streams** in real time.

## **Achievements & Activities**

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### **Hackathon :- Language Translation Hackathon Project**

#### **Hackathon – Language Translation Project**

- Built a **Python-based NLP translation tool** for real-time multilingual text conversion.
- Integrated **speech-to-text and text-to-speech APIs**, collaborating in a 3-member team.
- Gained hands-on experience in **Natural Language Processing (NLP)** and rapid prototyping.