

**Prakrati Pawar**  
**Software Development Engineer**

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## Professional Summary

Software Development Engineer with **1.4+ years of experience** at **Jio Platforms Limited**, working across backend, frontend, and AI-driven systems. Strong experience in building scalable **Python-based APIs**, integrating **STT/TTS services** for conversational AI, and developing **React.js applications** including ChatGPT-like interfaces. Hands-on with **FastAPI, SQL, AWS, Docker**, and system monitoring using **SigNoz**, with a focus on building reliable, production-ready systems.

## Work Experience

### Software Development Engineer

*Jio Platforms Limited*

*Sep 2024 – Present, Mumbai*

- Designed, developed, and maintained **Python backend services** for AI-enabled and voice-based applications, ensuring scalability and reliability.
- Integrated **Speech-to-Text (STT)** and **Text-to-Speech (TTS)** services to enable real-time conversational workflows.
- Developed interactive **React.js frontends**, including a **ChatGPT-like conversational playground** for testing and user interaction.
- Contributed to **home automation solutions** leveraging **LLM-powered voice services** and IoT integrations.
- Implemented observability using **SigNoz**, creating **SQL-based dashboards** for monitoring logs, latency, and service health.
- Collaborated with cross-functional teams to deliver features in fast-paced environments while following clean code and best engineering practices.

### Java Developer(Internship)

*Internpe*

*Sep 2023 – Oct 2023, Remote*

- Learned core Java concepts and completed hands-on programming exercises.

## Technical Skills

**Languages:** Python, SQL, Java

**Frontend:** React.js, HTML, CSS, Bootstrap

**Backend:** FastAPI, REST APIs

**AI / Voice:** STT, TTS, LLM-based integrations

**Databases:** SQL, DBMS

**Cloud & DevOps:** AWS, Docker

**Monitoring:** SigNoz

**Core Concepts:** Data Structures and Algorithms, Problem Solving

## Projects

### Jio AI – Real-Time Conversational Assistant (Jio Platforms Limited)

- Contributing to a real-time **AI assistant** supporting **voice-to-voice** and **text-to-text** interactions.
- Integrated **Speech-to-Text (STT)**, **Text-to-Speech (TTS)**, and **LLM-based pipelines** for natural conversational experiences.
- Enabled AI interactions across **smart devices** including headphones, smart speakers, glasses, and home automation setups.
- Worked on backend services for conversation orchestration, session management, and device integrations.

### AI-Based Home Automation System

- Developed an **AI-powered home automation system** using **LLMs, voice services, backend APIs, and IoT devices**.
- Implemented voice-controlled automation for smart lights, appliances, and connected home systems.
- Designed backend services to ensure **real-time responsiveness** and reliable device communication.

### Campus Recruitment Management System

- Designed and developed a web-based system to streamline campus placement workflows.
- Implemented role-based modules for **students, companies, and administrators**.
- Improved recruitment process efficiency for placement officers and students.
- Tech Stack:** HTML, CSS, Bootstrap, PHP, SQL

### **Deployment of Web Applications using AWS**

- Deployed and hosted web applications using **AWS cloud services**.
- Gained hands-on experience with cloud infrastructure, deployment, and application hosting.

### **Education**

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#### **Master of Computer Applications (MCA)**

Ajeenkyा DY Patil University, Pune

2022 – 2024

CGPA: 8.5 / 10

#### **Bachelor of Science in Computer Science**

Shri Arihant College of Professional Education, Ratlam

2019 – 2022

Score: 83.70%

### **Certifications**

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- Operating System – Saylor
- DBMS – Scaler
- AWS Cloud Practitioner Essentials – Coursera
- Cloud Computing and DevOps – Pregrad

### **Languages**

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Hindi (Native / Bilingual)

English (Full Professional Proficiency)