MITHUN PRANAVA RAJA KUMAR

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DEVELOPER PROFILE

Passionate Software Developer skilled in designing high-performance applications using Java and C++. Experience building scalable softwares with a focus on backend and frontend architectures, RESTful APIs, and database design. Fast learner, committed to clean, testable code and continuous improvement. Good knowledge of object-oriented programming.

EDUCATION

❖ **Pursuing B.Tech in Computer Science and Engineering** **(2022-Present)**

   SASTRA Deemed University, Thanjavur — CGPA: 7.96 (Till 6th Sem)
❖ **Class 12th (CBSE)– Mathematics Computer Science** (2022)
   SMBM National Public School, Dindigul — Percentage: 96.4%
❖ **Class 10th (CBSE)** (2020)
   SSM Academy, Dindigul — Percentage: 94.4%

TECHNICAL SKILL OVERVIEW

Technical Skills	
Programming Languages	Java 1.8, Python 3.6.
Client-Side Technologies	HTML, CSS, JavaScript, ReactJS
Frameworks	Spring Boot 2.4, Django 5.1
Web Servers	Apache Tomcat 9.0
IDE	Spring Tool Suite 4.11, Eclipse, Visual Studio Code, PyCharm
Build/Testing Frameworks	Maven, Postman
SQL/NoSQL Database	MySQL, PostgreSQL
Concepts	OOP, Multithreading, RESTful APIs, System Design, Application Development
Cloud & Deployment	Render, Git

PERSONAL PROJECTS

1. **AI Travel Assistant Chatbot**
   - Developed an intelligent travel planner chatbot using **React.js**, **Django**, and **Firebase Realtime DB**.
   - Enables users to plan, personalize, and book entire trips (itinerary, transport, stay) in a **single interface**, with smart destination suggestions based on user interests.
   - Tackles the lack of unified travel platforms by integrating **AI recommendations**, booking flow, and real-time updates.
   - Currently building a **social travel-sharing feature** (Insta-style posts with trip details, media, likes) where users can **replicate & customize** others' trips instantly.

2. **AI-Powered Cold Email Generator**
   - Matched scraped job descriptions with employee profiles using vector search
   - Auto-generated personalized outreach emails via LLM
   - Tech Stack: Python, OpenAI GPT, ChromaDB, BeautifulSoup, SMTP

3. **TCP Chat Application with GUI**
   - Built a real-time client-server chat app using Java Sockets and Swing
   - Enabled two-way messaging with multithreaded client support
   - **Tech Stack**: Java, Swing, TCP/IP, Multithreading

4. **Scalable Todo App with REST API and Cloud Hosting**
   - Developed a RESTful web service using Flask and SQLAlchemy for managing tasks
   - Implemented CRUD operations and status toggling with JSON-based communication
   - Deployed to cloud (Render) with GitHub-based CI/CD integration
   - Tech Stack: Python, Flask, SQLite, REST API, Git, Render

INTERNSHIP

❖ **WorkNest – Full Stack Web App**

Project Intern @ NIT Trichy (Under Guidance: Dr. S. Domnic)*| June 2025 – Present*

- Built a full-stack **service marketplace** using **React.js**, **Django REST Framework**, and **PostgreSQL**.
- Implemented **JWT auth**, **role-based access**, and **multi-stage ticket flow** (booking → verification → payment → review).
- Developed secure REST APIs, real-time status updates, and admin-controlled workflows (worker approval, document verification).
- Focused on clean UI design, reusable React components, and robust backend logic.

❖ **Software Developer Intern – iSQUARE Business Solutions Pvt. Ltd, Madurai**
   June – July 2024

- Built a full-stack **Employee Access Card Event Tracking System** using **Spring Boot** and **React.js**.
- Tracked workers' **in/out times**, computed **productive hours**, and handled **irregular entry cases** (e.g., only IN or OUT).
- Currently enhancing the system with **PDF report generation** for project managers to review productivity and attendance patterns.

COURSES & CERTIFICATIONS
- Python for Data Science (4 weeks) NPTEL Jul-Aug 2024 : **76%**
- Programming, Data Structures and Algorithms using Python (8 weeks) NPTEL Jul-Sep 2024 : **77%**
- Getting Started with Competitive Programming (12 weeks) NPTEL Jul-Oct 2024 : **62%**
- Introduction to Machine Learning (yet to be certified---ongoing)

Personal Strength : Leadership skills, Quick Learner, Socializable, Self-confidence,

Hard working.

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

R. MITHUN PRANAVA.