

# Swaraj Panmand

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## EDUCATION

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**Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology (SPIT)** Mumbai, India  
*Bachelor of Technology in Computer Science and Engineering, Minor in Industrial IoT* *Aug. 2023 – Present*

## EXPERIENCE

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**Software Development Intern** April, 2025 – January, 2026  
*Finoux Solutions Private Limited* *Mumbai, India*

- Built a Flutter loan app featuring bilingual support, Firebase backend, offline capabilities, GPS tracking, and comprehensive loan application workflows for seamless user experience.
- Added comprehensive document vault, and multi-user management features to React Native application.
- Engineered a Python script for efficient Firestore data export to Excel/CSV, using batch processing and parallel execution to enhance performance.

## PROJECTS

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**AI-Driven Live Call Insights** | *React, FastAPI, AWS (Transcribe, Comprehend), Deepgram API*

- Built a Chrome extension that integrates with Google Meet to capture real-time audio streams and provide live transcription overlays for customer service calls.
- Implemented Deepgram's real-time speech-to-text API alongside AWS Transcribe and Comprehend for comprehensive audio processing, sentiment analysis, and entity recognition.
- Developed WebSocket connections for live audio streaming and real-time insights delivery, enabling instant customer service agent assistance during calls.
- Created a React-based dashboard with live transcription display, sentiment indicators, and real-time AI-powered insights for customer service optimization.

**Docker PR Deployment Validator** | *Chrome Extension, Express.js, Node.js, Google Gemini AI, GitHub API*

- Built Chrome Manifest V3 extension with Express.js backend integrating GitHub Actions API and Google Gemini 2.5 Flash for automated Docker build failure analysis in pull requests
- Implemented ZIP-based workflow log extraction using JSZip, intelligent error filtering with regex patterns, and structured AI prompting for JSON-formatted root cause analysis
- Developed RESTful API with CORS middleware, in-memory decision persistence, and GitHub REST API integration for automated PR commenting with AI-generated fix suggestions
- Engineered real-time PR detection via URL parsing, asynchronous workflow run filtering, and bidirectional Chrome extension-server communication for seamless DevOps workflow integration

**AI-Native Health Copilot** | *React Native, Express.js, TypeScript, Thesys C1 API, Chrome Extension*

- Built multi-platform AI health copilot with Express.js backend, React Native mobile app (Expo Router), and Chrome MV3 extension for intelligent food product analysis
- Integrated Thesys C1 API with custom components using recursive JSON renderer, HTML entity decoding, and generative UI protocol
- Implemented dual OCR pipeline with @react-native-ml-kit/text-recognition for mobile and OCR.space API for extension with chrome.storage.local persistence
- Engineered RESTful conversation API with Map-based storage, CORS middleware, and React hooks for real-time AI response streaming

## ACHIEVEMENTS

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**Competitive Programming**

- LeetCode: 400+ problems solved (Top 2%)
- Codeforces rating: 1100

## TECHNICAL SKILLS

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**Languages:** Python, C++, JavaScript, TypeScript, SQL (MySQL)

**Frameworks & Libraries:** React, React Native, Flutter, Next.js, Node.js, Express.js, Flask, FastAPI

**Tools & Platforms:** Git, Docker, AWS (EC2, S3), Firebase, GitHub API, Jupyter Notebook, Figma