

Swaraj Panmand

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EDUCATION

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

Software Development Intern

April. 2025 – Present

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

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.

Intelligent Document Privacy Protection System | *React, FastAPI, Python, ML*

- DistilBERT + Groq LLM (Gemma2-9B-IT) with LangChain, transformers, and PyTorch for intelligent PII detection
- PyMuPDF (fitz), python-docx, react-pdf, PDF.js for PDF/DOCX/TXT/JSON support with real-time redaction and batch ZIP operations
- React + Material-UI, FastAPI + Uvicorn, react-dropzone, react-router-dom, and custom PDF viewer with drag-and-drop interface
- Temporary storage with shutil, background tasks, CORS middleware, and ML pipeline optimization using pandas

Knowledge Graph-Enhanced Fax Validation Platform | *React Native, Express.js, Neo4j, BERT, spaCy*

- Built React Native app with Expo, tab navigation, D3.js visualization, TypeScript interfaces for Node.js backend
- Hybrid BERT + Knowledge Graph architecture with Pulk17/Fake-News-Detection (99.58% accuracy), PyTorch fusion layer, 768-dim BERT + 128-dim Node2Vec embeddings
- Dynamic KG generation using NetworkX/Node2Vec, Neo4j integration with Cypher queries, real-time entity relationships and analytics

ACHIEVEMENTS

Competitive Programming

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

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL), JavaScript, TypeScript, HTML/CSS

Frameworks: React, React Native, Flutter, Next.js, Node.js, Express.js, Tailwind CSS, Material-UI, Flask, FastAPI

Tools: Git, Docker, AWS EC2/S3, VS Code, Jupyter Notebook, Figma

Libraries: pandas, NumPy, Matplotlib, TensorFlow, Socket.IO, Leaflet.js