Pratham Shah

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Summary

An aspiring software engineer with hands-on experience in full-stack development, microservices, and AI-based solutions. Proficient in modern Web and Mobile Technologies and DevOps practices. Strong problem solving skills, research experience in machine learning, and a proven track record of impactful internships and hackathon participation.

Education

- **Pandit Deendayal Energy University, Gandhinagar** — Expected May 2026
  Bachelor of Technology in Information and Communication Technology — CGPA: 8.33

Experience

- **Software Development Intern** — May 2025 – July 2025
  Rebel Minds, Gandhinagar
  - **Wink Platform (Automated Coding Contest System):**
    * Built microservices for automated code evaluation (image processing, React.js UI testing) using Python, Docker, Playwright
    * Automated GitHub repo cloning, Dockerized builds, and Playwright-based UI validation
    * Integrated LLM (Gemini 2.5 Flash) for output analysis, grading, and reporting
    * Orchestrated modular tools via FastAPI, and custom FastMCP framework
  - **Gormish Food Delivery Platform:**
    * Developed multi-app food delivery system (web/mobile/backend) using React, React Native, Node.js, Prisma, PostgreSQL serving 50+ customers and 10+ restaurant partners
    * Built robust RESTful APIs with role-based authentication (JWT, Google OAuth), live updates (Socket.io), and notifications
    * Implemented interactive frontend using Vite, Tailwind CSS, Framer Motion and Leaflet
    * Mobile apps built in React Native + Expo + React Native WebView and Deployed applications to Google Play Store with Firebase push notifications and secure authentication
- **Web Development Intern** — January 2025 – May 2025
  Jarurat Care Foundation, Mumbai
  - Contributed to chatbot backend development to improve accessibility for cancer patients and caregivers
  - Redesigned and updated UI components using Figma-based designs for a seamless user experience
  - Fixed UI/UX bugs and optimized site performance for greater usability and engagement
  - Collaborated with the tech team using structured workflows including weekly syncs and task tracking

Projects

- **LaundryEase – Full-Stack Laundry Service Platform**
  Node.js, Express.js, PostgreSQL, Prisma ORM, React Native, Expo
  - Developed scalable backend APIs, role-based login flows (JWT, Google OAuth), and real-time tracking
  - Created customer/partner mobile apps with Expo + Supabase for OTPs, file uploads, and analytics
- **AI-Based Water Quality Monitoring System**
  FastAPI, React.js, ESP32, IoT, MongoDB, LLaMA, ML
  - Built real-time dashboard, streamed sensor data to MongoDB using FastAPI
  - Applied ML for anomaly detection and LLaMA assistant for intelligent recommendations
- **Brain Tumor Classification using EfficientNet**
  Python, PyTorch, EfficientNet, CV, Transfer Learning
  - Fine-tuned EfficientNet for MRI tumor classification, achieving 0.9911 F1-score
  - Improved model generalization using data augmentation techniques
  - Leveraged CUDA GPU acceleration (Google Colab) for training on large-scale MRI datasets
  - **Publication:** Submitted paper to Fourth International Conference on Computing, Communication and Learning (CoCoLe)

Technical Skills

- **Languages:** JavaScript, Python, C, C++
- **Frontend frameworks:** ReactJS (vite), React Native (Expo)
- **Databases:** MongoDB, Supabase, Firebase
- **Backend:** NodeJS, ExpressJS, FastAPI, Prisma ORM
- **DevOps:** Google Cloud Platform (GCP), AWS, Docker, Git, GitHub, Vercel, Render
- **Other Techs:** Postman, Ngrok, Socket.io, NPM, Vercel, Render, Netlify, Figma, Google oAuth, Firebase authentication
- **AIML skills:** PyTorch, TensorFlow, CUDA, Computer Vision, NLP, Deep Learning (CNN, LSTM), Transfer Learning

Hackathons & Activities

- **SSIP Hackathon (November 2023):** Participated with team of 5, developed Wi-Fi based attendance app with geo-fencing prototype
- **Kharagpur Data Science Hackathon (January 2025):** Developed machine learning model for research paper classification
- **Python 101 Workshop (2023):** Conducted comprehensive 2-day workshop with college team "ENCODE" covering Python fundamentals, loops, functions, recursion, file handling, and web scraping

Certifications

- TATA: Data Visualization for Business Insights (August 2024)
- Jio Institute: AI and Data Science Tech Trek (July 2024)
- IBM: AI/ML with Python, Deep Learning, Neural Networks, Computer Vision (May - July 2023)