Prarthan Agarwal

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PERSONAL PROJECTS

CryBaby ↗
A mobile app that lets you track & enjoy your emotional moments.
- Built a React Native/Expo mobile app for tracking and analyzing emotional crying sessions.
- Implemented secure authentication flow using Google/Apple Sign-In with Supabase and PostgreSQL.
- Designed interactive data visualization dashboard with Victory Native for emotional pattern analysis.
- Gamified achievements with 58 unique unlockables, currently enjoyed by **176 users**.

CraftAds ↗
An AI-powered platform that transforms product photos into professional print-ready advertisements.
- Built on Next.js, Tailwind CSS, and Supabase, supporting auth, image uploads, and analytics.
- Integrated OpenAI's GPT-4 Vision (gpt-image-1) to analyze product images and generate ad content with customizable templates.
- Designed a template library of 1,000+ ads, using a custom scrapper I wrote.

Flowpad ↗
A minimalist Electron desktop notepad app for your thoughts to flow.
- Developed with Electron.js, all free & local, open-source codebase.
- A bottom bar with word count, time, font options, and real-time autosave functionality.
- A sidebar for date-wise note history and folder categorization.
- Shipped with a productivity-first UX inspired by Freewrite, loved by **47 users** on the launch day.

F.R.I.D.A.Y. ↗
An open-source virtual assistant inspired by Tony Stark's Jarvis.
- Complete speech-to-speech assistance with a CLI for quick inference.
- A voice interface achieving 5x faster response times using StyleTTS2 and faster-whisper.
- Built a memory system with context-aware tracking and tag-based organization across categories.
- Modular architecture with local LLM processing via llama.cpp ensuring privacy and offline capabilities.

WORK EXPERIENCE

FIFO UK
Product R&D Head (Freelance Project)   Feb 2022 - April 2022
- Directed the design and development of the digital interface and packaging for the MymeFresh air freshener product line, aligning with the brand's eco-centric ethos.
- Crafted compelling product docs and guides, enhancing accessibility and market engagement.
- Led the technical architecture for web-based product platforms, focusing on intuitive user experiences.

SKILLS

Languages: Python, Java, SQL, PostgreSQL, JavaScript, TypeScript, Swift.
Frameworks/Libraries: React Native, Next.js, Electron, React, Tailwind CSS, Git, GitHub, Flask, FastAPI
Design Tools: Framer, Adobe Photoshop | Illustrator | Premiere Pro

EDUCATION

SRM University
Bachelor of Technology (B. Tech)   2021 - 2025