Arunodoy Banerjee

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EXPERIENCE

Founder – Zone (Offline Disaster-Communication App) Jul 2026 – Present
Kotlin, Jetpack Compose, Bluetooth Low Energy, Android SDK *SMIT, Sikkim*

- Founded and building **Zone**, a native Android app that keeps phones talking when cell towers and internet fail: devices relay **31-byte distress packets** over a **Bluetooth LE store-and-forward mesh**.
- Engineered heartbeat-based silence detection, barometric floor-level triage and cell-loss mapping to guide rescuers; selected for IIC-SMIT pre-incubation and incubated at **AIC-SMUTBI**. Live | GitHub

AI Automation Developer 2025 – Present
buildc3.tech *Remote*

- Design and ship LLM-powered automation systems for client and in-house products, covering lead handling, outreach and developer productivity.
- Built a **WhatsApp RAG agent** that answers inbound queries from a vector-embedded knowledge base and qualifies leads automatically, removing manual first-response handling.
- Architected **LeadRadar**, a multi-tenant outreach automation SaaS: Apollo.io lead sourcing and enrichment, a scheduled outreach engine, and an LLM classifier that auto-routes hot replies; enforced tenant isolation with PostgreSQL Row-Level Security and Stripe webhook-synced billing.
- Shipped two AI browser extensions (**Meow AI**, **Nakung AI**) that embed LLM assistance directly into developer workflows via Chrome Extension APIs.

PROJECTS

DietBuddy – AI Nutrition Tracker | *Next.js, TypeScript, Gemini API, PostgreSQL, Drizzle ORM, Redis* 2025 – Present

- Built and launched a full-stack AI nutrition app that analyzes meal photos with the Gemini vision API to estimate macro- and micronutrients, with personalized goals, streaks and progress analytics.
- Shipped FridgeRaider (fridge scan to recipe generation) and voice-based meal logging; secured the app with NextAuth (Google OAuth, OTP reset) and Upstash Redis rate limiting on AI endpoints.
- Packaged the PWA as an Android app via Trusted Web Activity, distributed as a direct-download APK, reaching **100+ active users**; monetized with a Razorpay subscription paywall. Live | GitHub

Cadence – Conversational Language Learning | *Next.js, TypeScript, LLM APIs, Speech Recognition, Supabase* Jun 2025 – Present

- Built a language-learning platform focused on spoken fluency, using active-recall drills and real-time speech interaction instead of gamified streaks.
- Engineered a speech-to-feedback loop that captures learner audio and scores pronunciation and grammar with LLM APIs, returning sentence-level corrections.
- Grew to **200+ active users** through daily spoken-practice sessions and spaced-repetition progression. Live | GitHub

TalentSync – AI Career Platform | *Next.js, OpenAI, Groq, PostgreSQL, Redis, Supabase, Razorpay* Aug 2025 – Present

- Built a full-stack AI career platform for resume parsing, ATS scoring and semantic job matching with end-to-end application automation.
- Engineered an ATS scoring engine on GPT models that evaluates keyword density, formatting and skills coverage, returning structured category-wise scores.
- Designed an embeddings-based matching pipeline that **reduced irrelevant matches by 60%**, and added Redis caching and rate limiting that **cut database load by 45%** at peak. Live | GitHub

EDUCATION

Sikkim Manipal Institute of Technology Rangpo, Sikkim
B.Tech in Computer Science (Artificial Intelligence & Machine Learning) *Aug 2024 – May 2028*

- Coursework: Data Structures & Algorithms, DBMS, Operating Systems, OOP, Machine Learning, Probability & Statistics

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, C++, JavaScript, TypeScript, SQL
AI/ML: LLMs, Prompt Engineering, RAG, Vector Embeddings, Generative AI, Gemini & OpenAI APIs, NumPy, Pandas
Frameworks: React, Next.js, Node.js, FastAPI, Spring Boot, Jetpack Compose, REST APIs, Tailwind CSS, NextAuth, PWA
Databases & Cloud: PostgreSQL, Supabase, Neon, Drizzle ORM, Redis, Microsoft Azure, Vercel, Netlify
Tools & Practices: Git, GitHub Actions, CI/CD, Postman, Stripe, Razorpay, Android, Bluetooth LE, Agile, System Design

ACHIEVEMENTS & CERTIFICATIONS

- **Hackathon Runner-up – Devopia (Dell):** Secured 2nd place building an AI-driven solution under a 24-hour constraint.
- **Startup Incubation – Zone:** Selected for the IIC-SMIT Pre-Incubation Cohort 2026–27 (Certificate); subsequently selected for and now incubated at the Atal Incubation Centre (AIC-SMUTBI).
- **Competitive Programming:** Consistent LeetCode practice in Data Structures & Algorithms and problem solving.
- **Certification:** Walmart Global Tech – Advanced Software Engineering Job Simulation (Forage), Jul 2026.