

DAMEWAN BAREH

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EDUCATION

Kristu Jayanti College (Autonomous)

Master of Computer Applications (MCA) | CGPA: 8.23/10

St. Edmund's College (Affiliated to NEHU)

Bachelor of Computer Applications (BCA) | CGPA: 7.1/10

Bengaluru, Karnataka

Aug 2024 – Jun 2026

Shillong, Meghalaya

Aug 2021 – Jul 2024

TECHNICAL SKILLS

Programming & Scripting: Java, Python, Go, C, SQL, PHP, JavaScript, TypeScript, Bash/Shell

Web Development: React, FastAPI, Flask, Vite, TailwindCSS, HTML, CSS

Databases & Cloud: MongoDB, MySQL, Redis, PostgreSQL, Supabase, AWS S3, Pinecone

AI/ML, APIs & Tools: LLMs, RAG Pipelines, OpenAI, Hugging Face, RESTful APIs, WebSockets, Git, GitHub

AI Coding Tools: GitHub Copilot, Cursor, Antigravity, Claude Code

Developer Tools: VS Code, Postman, PyCharm, IntelliJ, Docker, Docker Compose, Render

Platforms/OS: Linux, Unix, Windows

EXPERIENCE

Backend Developer Intern

Apr 2026 – Present

Aimploy (AI-Powered Recruitment Platform)

Remote

- Designed and shipped a Background Verification (BGV) module to production using FastAPI & PostgreSQL with 10+ REST API endpoints and 5 normalized DB tables covering document upload, AI validation, and employment verification.
- Built a dual-storage layer (Supabase + AWS S3) for 6+ document types (Aadhaar, PAN, passport, payslips, etc.); used OpenAI GPT-4 Vision to score documents 0 – 100, auto-verifying those scoring ≥ 80 .
- Automated HR employment verification with 7-day expiring tokenized links and majority-rule aggregation across 3+ employers per candidate - the full module is live in production, managed via Git & GitHub.

Full Stack Developer Intern

Mar 2026 – Jun 2026

Axentra OS (AltissAdvance Tech Pvt. Ltd.)

Remote (Mumbai, Maharashtra)

- Built a real-time Chat Module using FastAPI WebSockets and React with sub-100ms delivery latency across 4 API endpoints; managed all branches and PRs via Git & GitHub.
- Engineered a Redis Pub/Sub broadcasting layer with a custom ConnectionManager supporting 500+ concurrent WebSocket connections across multiple server nodes.
- Designed the MongoDB data layer with 5 compound indexes and an async DAO pattern, achieving sub-millisecond query performance on paginated chat histories of 10,000+ messages.

Web Development Intern

Jun 2025 – Jul 2025

Meghalaya Technology Parks Society

Shillong, Meghalaya

- Redesigned and rebuilt the Meghalaya IT Parks website using HTML, CSS, JavaScript, and PHP; cut page bounce rate by 25% through improved information hierarchy and load-time optimisation.
- Developed an FAQ chatbot using rule-based NLP and a live project-tracking dashboard displaying real-time government IT initiative data, reducing manual status enquiries for the team.

PROJECTS

Luna OS: Local AI Personal Assistant | Python, FastAPI, React, Electron, Ollama, SQLite, Faster-Whisper

GitHub

- Architected a fully offline, local-first AI desktop application (Electron + React + FastAPI) with real-time LLM response streaming over WebSockets, an agentic tool-calling engine across 10+ capabilities (file I/O, calendar, reminders, contacts, IoT), and a per-invocation permission-gating system that intercepts every tool call before execution.
- Integrated offline speech-to-text via Faster-Whisper, a persistent cross-session memory layer on SQLite, and a 6-screen React UI (Chat, Memory, Privacy, Tasks, Settings, Onboarding); bundled the full stack into a distributable Windows installer via PyInstaller and electron-builder.

NexNote: AI Study Assistant | Python, Flask, Pinecone, Ollama, nomic-embed-text

GitHub

- Built a RAG-based study assistant with a Pinecone vector DB and self-hosted Ollama LLM; implemented semantic search across ingested PDFs, DOCX, and TXT files using nomic-embed-text embeddings.
- Built a chunking and embedding pipeline with auto-generated summaries, quizzes, flashcards, and concept extraction via prompt-engineered LLM calls through a clean Flask UI.

CERTIFICATIONS & ACHIEVEMENTS

- Publication:** *AI Literacy in K-13* – National Student Research Symposium (SRS), Kristu Jayanti University, Bengaluru (Sep 2025).
- Microsoft Certified:** Azure Fundamentals AZ-900 [Link](#)
- HackerRank Certified:** Software Engineer Intern, SQL, Java, Python, Problem Solving (Basic) [Link](#)
- LeetCode:** 100 Days Badge | 300+ problems solved [Link](#)
- Forage:** Accenture Software Engineering Job Simulation [Link](#)