

Amaan Barmare

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Education

Pennsylvania State University

Bachelor of Science in Computer Science, Minor in Economics

Dean's List: Spring 2024

State College, PA

May 2025

Experience

Oltaflock AI

Founding Engineer

Remote

Jan. 2026 - Present

- Built an AI-powered real estate transaction platform using **Next.js**, **TypeScript**, and **PostgreSQL** with Row-Level Security, featuring automated document ingestion (AOS, HOA, closing docs) via **LlamaParse**, deal health scoring, and a role-aware AI agent secured by **NemoClaw** runtime with PII masking, human-gated access controls, and prompt injection blocking.
- Deployed a **SCADA** monitoring and alerting system using **Next.js**, **React**, **Python**, and **pymodbus** for Modbus TCP polling of real-time PLC sensor data, with automated anomaly detection surfacing alerts on a web dashboard.
- Developed SMB automation solutions across lead generation, warehouse management systems, and AEO/GEO/AI SEO optimization for multiple clients.
- Led AI-assisted creative optimization workflows including video content generation using **Higgsfield** and performance tracking for marketing automation clients.

Mu Sigma

Data Scientist Intern

Austin, TX

Jul. 2025 - Nov. 2025

- Designed and deployed a real-time **Grafana** alert-monitoring dashboard for a Fortune 500 consumer goods client, visualizing yield percentage, inventory turnover, and on-time fill rate KPIs for factory operations teams.
- Engineered **PostgreSQL** data logic in **pgAdmin** across 15+ tables, writing 2-3 table joins per KPI to derive correct values for yield, inventory turnover, and on-time fill, then connected the database to **Grafana**, replacing a low-fidelity legacy dashboard.
- Built a proof-of-concept automated data extraction framework for unstructured PDFs and scanned documents with PII masking, encryption, and audit logging; also prototyped a 5-tier supply chain analytics pipeline using **PyTorch** and **LightGBM**.
- Led end-to-end delivery from **Figma** dashboard design to production **Grafana** deployment, coordinating a 2-person cross-timezone team in India across daily async handoffs.

Augle AI

Software Engineer Intern

Remote

June 2024 - Aug. 2024

- Engineered a **Scrapy** + **Selenium** scraping pipeline to extract 1,000+ structured product specifications from industrial supplier sites, improving downstream retrieval efficiency by 40%.
- Designed **MongoDB** schemas and access layers for scraped product data, enabling low-latency structured retrieval that reduced average AI-chatbot query time by 35%.

Augle AI

Software Engineer Intern

Remote

May 2023 - Aug. 2023

- Optimized an automated machine-vision inspection workflow for screw-defect detection using **OpenCV** + **PyTorch**, increasing throughput by 30% and reducing false-negative rate by 15%.
- Implemented **Flask**-based **SMTP/RTCP** notification services for real-time QC alert delivery, reducing average response time from 4+ minutes to under 10 seconds.

Projects

EchoBrief - AI Meeting Intelligence Platform

React · TypeScript · Supabase · OpenAI · Chrome Extension (Manifest V3)

echobrief.in | GitHub

- Built a browser-native meeting recorder using **Chrome Extension** (MV3) with tab audio capture and a **Recall** bot path for automated calendar-driven recordings, both feeding the same AI pipeline (**Sarvam** STT + **Whisper** fallback to **GPT-4o-mini**).
- Solved a service-worker lifecycle problem in **Chrome** MV3 by persisting recording state to local extension storage, ensuring recordings survive background worker restarts without data loss.

NexusCommerce - AI Commerce Admin Platform

Next.js · TypeScript · PostgreSQL · Prisma · OpenAI · Zod · Razorpay

GitHub

- Developed a natural language to validated **SQL** engine via **OpenAI** function-calling, supporting 10+ business query types by mapping requests to a whitelisted table set and generating parameterized read-only **SQL** with **Zod** schema enforcement and self-correction on failure.
- Developed an AI-driven marketing automation flow builder using **React Flow**, and implemented idempotent **Razorpay** webhook processing with HMAC signature verification, eliminating duplicate order fulfillment across 100% of retry scenarios.

ClarityBot - Agentic Fact-Checking System

React · FastAPI · Python · Supabase · Gemini · Server-Sent Events

clarity-bot-brown.vercel.app | GitHub

- Built an agentic fact-checking pipeline using **OpenClaw** architecture (extractor, searcher, crossref, scorer, emitter) that retrieves **Serper/Google** API results, cross-references sources by credibility, and caps confidence scores when evidence is weak.
- Solved a real-time log streaming problem on serverless infrastructure by polling **Supabase** for new rows and pushing updates via Server-Sent Events, making live runs and historical replay use identical code paths across **Vercel** instances.

Alyra - Headless E-Commerce Platform

React · TypeScript · Shopify Storefront API · Razorpay · GA4

alyra.in

- Built a production headless e-commerce storefront with custom checkout, **Razorpay**-powered webhook-driven order automation, serverless inventory APIs, and **GA4/Meta Pixel** analytics, generating **\$10,000+** in revenue within 6 months of launch.

Technical Skills

Languages: TypeScript, JavaScript, Python, SQL (PostgreSQL, SQLite), Java, C/C++

Frontend: React, Next.js, Tailwind CSS, Redux Toolkit, Vite, Figma, Chrome Extension APIs (Manifest V3)

Backend: Node.js, Express, FastAPI, Flask, REST APIs, OAuth 2.0, JWT, Webhooks, SMTP/RTCP, Zod, Server-Sent Events, Razorpay, Shopify Storefront API, Slack API, Resend
AI / ML: OpenAI APIs, Whisper, GPT-4o-mini, Sarvam AI, Gemini API, Serper API, LlamaParse, NemoClaw, Higgsfield, PyTorch, LightGBM, OpenCV, Prompt Engineering, RAG, YOLOv3

Data / Infra: PostgreSQL, pgAdmin, MongoDB, Supabase, Prisma, Grafana, Scrapy, Selenium, pymodbus, Modbus TCP, Docker, AWS, Azure, Vercel, Recall AI, GA4, SCADA