

Enrin Debbarma

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EDUCATION

The Pennsylvania State University
Bachelor of Science in Computer Science

Harrisburg, PA
Jan. 2022 – Dec 2025

EXPERIENCE

Software Engineer Intern

June 2025 – Aug. 2025

Alervio Inc. | alervio.com

Bridgewater, NJ

- Led development of full-stack application, and integrated LLM-powered features using FastAPI and vector search
- Built production B2B platform using React, Firebase, and TypeScript; developed ML-based matching algorithm to process datasets from external APIs
- Established CI/CD pipeline with Vercel and designed UI/UX in Figma, translating mockups into frontend components
- Proposed migration to Next.js and Tailwind CSS, improving development efficiency by 40%

Software Engineer

Aug. 2025

Life After Ostomy | lifeafterostomy.com

Harrisburg, PA

- Built an e-commerce platform for an ostomy support community of 3,000+ members using Next.js, TypeScript, and Supabase
- Optimized SEO and performance, driving a 178% increase in visitor traffic within 30 days
- Integrated secure Stripe payments and delivered a mobile-first, accessible UI, achieving a 98% accessibility score

PROJECTS

NextStep | nextstep4.com | *Express/Node, MongoDB, AWS EC2, Docker*

- Built and deployed a full-stack AI job-matching platform on AWS EC2 with 200+ monthly visitors
- Designed a Node.js backend with real-time job API integration, Docker containerization, automated CI/CD using GitHub Actions
- Built an automated resume analyzer using OpenAI Assistants API for skill extraction and profile auto-population
- Engineered semantic search with OpenAI embeddings and MongoDB Vector Search for natural language job queries
- Implemented a self-improving RAG system with LangChain and Gemini that learns from user feedback, optimizing latency 10x (2s → 200ms) while reducing API costs by 90%
- Secured the platform with JWT and OAuth 2.0 authentication, bcrypt password hashing, and automated testing with Jest

aSpot | [GitHub](https://github.com) | *Spring Boot, Next.js, PostgreSQL, Elasticsearch, Redis, Kubernetes*

- Built a travel itinerary platform using Spring Boot microservices with RAG-powered schedule generation using GPT-4
- Implemented real-time collaborative trip planning using WebSockets
- Developed location-based activity search using Elasticsearch geospatial queries and Google Places API
- Implemented route optimization using Google Directions API to reorder activities by shortest travel time
- Containerized 11 services using Docker Compose and deployed to Kubernetes with Redis caching and 3 PostgreSQL instances

GitMatch | *React (Vite), FastAPI, PostgreSQL, Clerk*

- Built a developer matchmaking platform using FastAPI that analyzes GitHub profiles to recommend compatible developers based on coding behavior, language overlap, and activity patterns
- Integrated Groq Mistral LLM for tagline generation and built data pipeline with caching and bot detection

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML, CSS

Frontend: React, Next.js, React Native, Tailwind CSS, Redux

Backend: Node.js, Express.js, FastAPI, Flask, Spring Boot, Langchain, REST APIs

Databases: PostgreSQL, MongoDB, Supabase, Firebase, Upstash

Cloud/DevOps: AWS, EC2, S3, GCP, Docker, Kubernetes, Vercel, GitHub Actions

Tools & Other: Git, GitHub, Cursor, Claude Code, Redis, Nginx, Jira, Figma, Vite, Postman, Jest, Bash, Clerk, Twilio