Enrin Debbarma

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EDUCATION

The Pennsylvania State University — Harrisburg, PA
Bachelor of Science in Computer Science — *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 with automated calculations
- 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 – Aug. 2025
Life After Ostomy | lifeafterostomy.com — *Harrisburg, PA*

- Built a PWA e-commerce platform 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 | *React, Node.js, MongoDB, AWS EC2, Docker* — Nov. 2024 – Present

- Built and deployed a full-stack AI job-matching platform on AWS EC2 with 200+ monthly users using React and Vite
- Designed a Node.js backend with 45+ REST endpoints, Docker containerization, and automated CI/CD using GitHub Actions
- Engineered semantic search using OpenAI embeddings and MongoDB Vector Search, optimizing RAG chatbot latency 10x (2s $\rightarrow$ 200ms) while reducing API costs by 90%
- Implemented a self-improving RAG system with LangChain that learns from user feedback; integrated real-time job APIs with caching and rate limiting
- Secured the platform with JWT and OAuth 2.0 authentication, bcrypt password hashing, and automated testing with Jest

aSpot | GitHub | *Spring Boot, Next.js, TypeScript, PostgreSQL, Elasticsearch, Docker, Redis* — Jan. 2025 – Present

- Designed and built a travel platform using Spring Boot with 5 microservices
- Engineered database-per-service architecture across PostgreSQL and Elasticsearch
- Deployed 8 services using Docker Compose and Kubernetes
- Implemented an API Gateway with circuit breakers, rate limiting, and JWT-based authentication
- Developed location-based activity search using Elasticsearch geospatial queries and integrated Google Places API
- Built WebSocket-based real-time collaboration to support multi-user itinerary planning

GitMatch | *React (Vite), FastAPI, PostgreSQL, Clerk* — May 2025 – Present

- Architected developer matchmaking platform with React and FastAPI
- Engineered data ingestion pipeline processing 1,000+ GitHub developer profiles

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML, CSS
Frontend: React, Next.js, React Native, Tailwind CSS, Redux
Backend: NodeJS, ExpressJS, FastAPI, Flask, Spring Boot, Langchain, REST APIs
Databases: PostgreSQL, MongoDB, Supabase, Firebase
Cloud/DevOps: AWS, EC2, S3, GCP, Docker, Kubernetes, Vercel, GitHub Actions
Tools & Other: Git, GitHub, Cursor, Redis, Nginx, Jira, Figma, Vite, Postman, Jest, Bash, Clerk