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*

- Drove 0-1 development of full-stack B2B/B2C SaaS products, collaborating with AI engineers to integrate LLM-powered features using FastAPI and vector search
- Built production B2B platform using React.js, Firebase, and TypeScript; implemented ML-based matching algorithm to process large datasets from external APIs with automated calculations
- Architected responsive PWA with SEO optimization; implemented CI/CD pipeline with Vercel; led migration to TypeScript and Tailwind CSS, improving development efficiency by 40%
- Designed UI/UX in Figma and implemented frontend components, collaborating with stakeholders to deliver features for production deployments

Software Engineer Aug. 2025 – Aug. 2025

Life After Ostomy | lifeafterostomy.com *Harrisburg, PA*

- Developed e-commerce platform for client using Next.js, TypeScript, and Supabase, targeting 10,000+ ostomy community members
- Implemented secure payment processing with Stripe API and built accessible, mobile-first UI achieving 98% accessibility score

PROJECTS

NextStep | nextstep4.com | *React, Node.js, MongoDB Atlas, AWS EC2, Docker* Nov. 2024 – Present

- Deployed full-stack AI job matching platform on AWS EC2 with containerized microservices (Docker), reverse proxy (Nginx), and process management (PM2); built responsive React.js frontend and scalable Node.js/Express REST API backend featuring 45+ endpoints
- Engineered semantic search system using OpenAI text-embedding-3-small and MongoDB Atlas Vector Search; optimized RAG chatbot with Google Gemini 2.5 Flash API integration, achieving 90% API call reduction and 10x performance improvement (2s to 200ms)
- Implemented AI resume parsing and analysis using OpenAI API; implemented authentication with JWT tokens, bcrypt encryption, OAuth 2.0, and session management
- Established automated CI/CD pipeline with GitHub Actions; implemented Jest unit testing, automated SSH deployment to EC2 with health monitoring

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

- Built travel planning platform with 5 independent Spring Boot microservices and Next.js frontend, implementing database-per-service pattern across 3 PostgreSQL databases
- Designed API Gateway with Spring Cloud Gateway featuring circuit breakers, rate limiting with Redis, and JWT authentication; orchestrated 8+ containerized services with Docker and Kubernetes
- Implemented activity search using Elasticsearch with geospatial queries for location-based recommendations; built real-time collaboration system with WebSocket communication

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: Node.js, Express.js, FastAPI, Flask, Spring Boot, REST APIs
Cloud/DevOps: AWS, EC2, S3, GCP, Docker, Vercel, GitHub Actions
Tools & Other: Git, GitHub, Cursor, Redis, Nginx, Jira, Figma, Vite, Postman, Jest, Bash, Clerk