Enrin Debbarma

Harrisburg, PA | nrndbrma@gmail.com | linkedin.com/in/enrinjr | github.com/emd5953 | enrinjr.com

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 and B2C SaaS products, collaborating with AI engineers to integrate LLM-powered features using FastAPI and vector search technologies
- 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 with component-based architecture 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 with machine learning algorithms; optimized RAG chatbot with Google Gemini 2.5 Flash API integration, achieving 90% API call reduction and 10x performance improvement (2s to 200ms)
- Developed AI-powered features using OpenAI API; implemented enterprise-grade 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 for user management, itinerary creation, and activity recommendations
- Designed API Gateway with Spring Cloud Gateway featuring circuit breakers, rate limiting with Redis, and JWT authentication; orchestrated 8+ containerized services with Docker Compose for development and production
- Implemented activity search using Elasticsearch with geospatial queries for location-based recommendations; built real-time collaboration system with WebSocket communication enabling multiple users to edit travel itineraries

GitMatch | *React (Vite), FastAPI, PostgreSQL, Clerk*   May 2025 – Present
- Architected developer matchmaking platform with React frontend and FastAPI REST API; engineered data ingestion pipeline processing 1,000+ GitHub developer profiles

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML, CSS, C#
Frontend: React.js, Next.js, React Native, Tailwind CSS, Redux, NextAuth.js
Backend: Node.js, .NET, Express.js, FastAPI, Flask, Spring Boot, REST APIs, JWT, OAuth 2.0, WebSocket
Databases: PostgreSQL, MongoDB Atlas, Supabase, Firebase, Oracle, DynamoDB, Elasticsearch, Redis, NoSQL
Cloud & DevOps: AWS, EC2, S3, GCP, Azure, Docker, Vercel, Render, GitHub Actions, CI/CD
Tools & Other: Git, GitHub, Jira, Figma, Vite, Postman, Jest, Bash, Nginx, PM2, Microservices, Vector Search, Clerk