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, collaborating with AI engineers to integrate 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*

- Developed e-commerce platform using Next.js, TypeScript, and Supabase with SEO optimization, driving 178% increase in visitor traffic over 30 days
- 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

- Built and deployed full-stack AI job matching platform on AWS EC2 with 200+ monthly visitors; React.js frontend, Node.js backend with 45+ REST endpoints, Docker containerization, and automated CI/CD with GitHub Actions
- Engineered semantic search with OpenAI embeddings and MongoDB Vector Search; optimized RAG chatbot achieving 10x faster responses (2s → 200ms) and 90% lower API costs
- Implemented self-improving RAG system using LangChain that learns from user feedback; integrated real-time job API with caching and rate limiting
- Secured platform with JWT/OAuth 2.0 authentication, bcrypt encryption; automated testing with Jest

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

- Built travel platform with 5 Spring Boot microservices using database-per-service pattern across PostgreSQL and Elasticsearch
- Implemented API Gateway with circuit breakers, rate limiting, and JWT authentication; deployed 8 services using Docker Compose
- Developed location-based activity search with Elasticsearch geospatial queries and Google Places API integration
- Created WebSocket-based real-time collaboration for 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