Subham Satapathy

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📍 Bhubaneswar, Odisha

Available for Immediate Joining
Last Working Day: February 6, 2026 — Open to Remote or Relocation

SUMMARY

Senior Full-Stack Developer with **4+ years** building scalable systems and **AI-powered applications**. Expert in Node.js, TypeScript, React, and GenAI (LLMs, RAG, embeddings). Architected microservices handling **5,000+ concurrent requests** and integrated AI capabilities for intelligent automation. Strong background in cloud infrastructure (AWS), databases, and modern DevOps practices.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Node.js, Python, SQL, HTML5, CSS3
AI/ML: OpenAI API (GPT-4, GPT-3.5), LangChain, Hugging Face, RAG, Vector Databases, Prompt Engineering
Frontend: React.js, Redux, Next.js, HTML5, CSS3, Responsive Design, Modern Web Frameworks
Backend & APIs: Node.js, Express.js, NestJS, RESTful APIs, GraphQL, Microservices, Serverless
Databases: PostgreSQL, MySQL, MongoDB, Redis, Pinecone, Weaviate, DynamoDB, Query Optimization
Cloud & DevOps: AWS (Lambda, EC2, S3, SageMaker, Bedrock), Docker, Kubernetes, Terraform, CI/CD
Tools: Git, Jest, Testing, Agile/SDLC, System Design, Performance Optimization

EXPERIENCE

Senior Full-Stack Developer   Mar 2022 – Present
Travelex   *Mumbai, India*

- Architected **100+ scalable full-stack services** using Node.js, TypeScript, and React.js with **sub-100ms response times** while processing **5,000+ concurrent requests/sec** across distributed systems
- Integrated **OpenAI GPT-4 APIs and LangChain** to build intelligent chatbot reducing response time by **60%** and handling **10,000+ daily queries** with **92% accuracy** through prompt engineering and RAG
- Developed **AI-powered document processing system** using Python, Hugging Face transformers, and vector embeddings (Pinecone) to extract and classify financial documents, automating **80% of manual tasks**
- Built **GenAI-powered fraud detection service** leveraging LLMs for transaction analysis, processing **50K+ transactions daily** and reducing false positives by **45%** through fine-tuned models
- Designed **semantic search functionality** using OpenAI embeddings and vector databases, enabling natural language queries across **10M+ financial records** with sub-second retrieval times
- Created internal **AI assistant tool** using LangChain and GPT-4 for automated code review and documentation generation, improving developer productivity by **40%**
- Built robust **RESTful and GraphQL APIs** for identity verification, payment processing, and FX operations serving **30+ countries**, integrating with React-based frontends
- Engineered **serverless microservices** with AWS Lambda processing **100K+ operations/sec**, reducing infrastructure costs by **35%** through auto-scaling
- Optimized database architectures (PostgreSQL, MySQL, MongoDB) with advanced indexing, improving performance by **60%** and implementing Redis caching to reduce database load by **40%**
- Implemented comprehensive **CI/CD pipelines** with CircleCI, Docker containerization, and automated testing (Jest, React Testing Library), improving deployment frequency by **35%**
- Built observability systems with CloudWatch tracking **100+ metrics** and achieving **99.99% uptime**, while mentoring junior developers on full-stack best practices

PROJECTS

AI-Powered Code Assistant | *Python, LangChain, OpenAI API, FastAPI, React.js, Vector DB*   2024
- Built intelligent code assistant using **GPT-4, LangChain, and RAG architecture** to provide contextual code suggestions, bug detection, and automated documentation from codebases up to **100K+ lines**
- Implemented semantic code search using OpenAI embeddings and Pinecone vector database with **90%+ relevance** and sub-second response times

- Developed FastAPI backend with streaming responses and React.js frontend featuring real-time code highlighting, integrated with VS Code extension

Redisfy - Database Management System | *Node.js, Express.js, Redis, React.js, TypeScript* 2024
- Developed **open-source full-stack Redis management tool** with Node.js/Express.js backend and React.js frontend featuring RESTful APIs and real-time operations
- Built responsive frontend with React.js using modern CSS, component-based architecture, and real-time command execution dashboard
- Implemented authentication, connection pooling, and comprehensive error handling ensuring robust and scalable full-stack architecture

E-Commerce Full-Stack Application | *Node.js, Express.js, React.js, MongoDB, PostgreSQL, JWT* 2023
- Architected complete e-commerce platform with Node.js/Express.js/TypeScript backend and React.js frontend, using MongoDB and PostgreSQL with ACID compliance
- Developed modern React.js frontend with product listings, shopping cart, checkout flow, and responsive design ensuring smooth user experience
- Designed RESTful APIs for authentication (JWT), product management, order processing, and payment gateway integration

EDUCATION

Ravenshaw University Cuttack, India
Master of Science in Computer Science *2020 – 2022*
College of Basic Science and Humanities, OUAT Bhubaneswar, India
Bachelor of Science in Computer Science *2017 – 2020*

CERTIFICATIONS & ADDITIONAL INFORMATION

Certifications: Actively pursuing AWS Solutions Architect and DeepLearning.AI courses