

# STEFANO NEBO

## BACKEND SOFTWARE ENGINEER

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### SUMMARY

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Backend engineer with years building efficient & scalable systems in healthcare, logistics, and fintech. I specialize in microservices architecture, AI/LLM & SDK integration, and real-time data processing. reducing runtime costs and improving system reliability through automation and optimization.

### EXPERIENCE

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#### VendcliQ | Backend Engineer

Sept 2025 - Present

- Built fault-tolerant notification service using RabbitMQ processing 50K+ daily messages across 8 individual microservices, reducing delivery failures from 15% to <1% through automated retry mechanisms
- Architected logistics platform handling thousands of bids and deliveries, automating rider-vehicle matching and payment processing and refunds and delivery confirmations reducing manual documentation by hours.
- Integrated payment gateway processing \$50K+ monthly transactions with wallet management and automated disbursement, reducing payment processing errors by 90% while maintaining duplicate ledger for audits

#### QlipHealth | Backend Engineer

Nov 2024 – April 2025

- Built HIPAA-compliant transcription service processing 200+ weekly dental consultations, achieving 90% accuracy using OpenAI Whisper and custom medical templates, eliminating 1+ hours of manual notetaking, cleanup, summarization and data input per doctor session.
- Integrated Zoom C++ SDK with Node.js backend by building custom middleware, reducing audio processing latency by 40% and eliminating \$500/month in third-party transcription costs
- Reduced transcription infrastructure costs by 60% by migrating from NVIDIA NeMo to OpenAI Whisper while improving processing speed by 35%

#### ExamReady | Full-stack Engineer

Sept 2023 – Nov 2024

- Built adaptive testing algorithm that dynamically adjusted question difficulty in real-time, improving student pass rates by 18% and reducing average prep time by 25%
- Developed analytics dashboard visualizing performance trends across 10K+ exam attempts, enabling students to identify weak areas and improving study efficiency by 30%.
- Implemented in-platform calculator and support ticketing system, reducing exam disruptions by 70% and improving student satisfaction scores from 3.2 to 4.5/5

### SKILLS

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- NestJS | Node.js | Express | NextJS | SQL | NoSQL | TypeScript | PostgreSQL | MySQL | MongoDB | Redis | RabbitMQ | Python | Artificial Intelligence (AI)
- AWS | Cloud Computing | CI/CD | Lamda | EC2 | Firebase
- Automated testing | GitHub Actions | Automated pipelines | DevOps | Containerization | Kubernetes
- Microservices | Distributed Systems | Event Driven Architecture | TDD | Service Oriented Architecture

### Education

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- Bachelor of Technology in Industrial Mathematics | Olusegun Agagu University of Science & Technology | 2024
- Certifications: CodePath Software Engineering (Python, Data Structures, Algorithms) | NextGen Builders Mentor (Inventors)