

Ayomiku John

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Summary

Backend engineer with 5+ years building and scaling production systems across AWS and Google Cloud. I specialize in infrastructure—managing databases with billions of records, architecting real-time messaging systems, and integrating AI into products that people actually use. I've reduced system latency by 45%, cut costs by \$30K through smart migrations, and built platforms serving thousands of daily users. I'm equally comfortable writing code, managing cloud infrastructure, or leading technical teams. Big believer in automation and using AI tools (especially Claude) to work smarter and ship faster.

Experience

Senior Backend Engineer

Digiyo • Remote

07/2025 - 12/2025

- AWS setup with EC2, load balancers, and auto-scaling (traffic spiked during major games)
- PostgreSQL with master-replica setup for the social graph and user content
- Implemented job queues using Bull/Redis for AI image generation—these operations take time, so they run async
- WebSocket infrastructure for real-time feeds, notifications, and messaging
- Social feed with posts, comments, likes, follows—standard social media stuff but optimized for sports content
- Recommendation engine for personalized content based on user activity
- AI image generation integration for sports challenges. Users describe what they want, and AI creates it.
- Set up Nginx reverse proxy with caching and rate limiting
- Used S3 + CloudFront CDN for serving images (way cheaper and faster than serving from EC2)
- Got API response times under a second even during peak traffic

Senior Project Manager & Infrastructure Lead

AbS • Lagos, Nigeria

07/2023 - 12/2025

- PostgreSQL database with 4+ billion records (past questions, study materials, user data). Had to get creative with indexing, partitioning, and query optimization to keep things fast.
- AWS infrastructure running on EC2 with auto-scaling, load balancers, and multi-AZ setup. Implemented proper disaster recovery—automated backups, monitoring, the works.
- Cut API latency by 45% through Redis caching and database optimization
- Built real-time messaging with Socket.IO for social features (Quills App, Chat for students)

DevOps: Managed CI/CD with GitHub Actions, automated testing, and deployment pipelines. Wrote infrastructure automation scripts (with Claude's help) to speed up repetitive tasks.

The biggest challenge was scaling the database. When we hit 3 billion records, queries started slowing down. Spent weeks optimizing—rewrote queries, added materialized views, implemented read replicas. Now we're handling 4B+ records smoothly.

Backend Engineer

HelloBob • Warri, Delta State

08/2024 - 11/2025

- Real-time messaging infrastructure using Socket.IO that handles thousands of concurrent connections with
- Complete AWS infrastructure: EC2 auto-scaling groups, Application Load Balancers, PostgreSQL with read replicas, automated backups to S3.

- Cryptocurrency wallet integration with secure transaction signing and blockchain RPC connections. Users can chat and transfer crypto without leaving the app.
- CI/CD pipeline that cut deployment time by 60%—GitHub Actions + Docker with automated testing and rollbacks. We ship features daily now.
- Monitoring setup with CloudWatch and custom dashboards. I get alerted before users notice problems. Currently running at 99.8% uptime.

The trickiest part was optimizing database queries for the message history feature. Used PgBouncer for connection pooling and implemented smart caching strategies that reduced database load significantly. Also used Claude heavily to speed up infrastructure automation and optimize complex queries

Senior Fullstack Developer

Bonsailabs • Victoria, British Columbia

11/2022 - 10/2024

- Migrated their main app from Flutter to React/CapacitorJS. This saved them \$30K annually in development costs and made the codebase way easier to maintain.
- Built serverless infrastructure using Cloud Functions, Cloud Run, and Cloud Storage. Set up auto-scaling so we only pay for what we use.
- Managed Cloud SQL (PostgreSQL) with HA configs, automated backups, and connection pooling.
- Optimized data processing with custom scripts—improved retrieval speed by 80%
- Set up Cloud CDN and load balancing for better latency across regions
- Implemented comprehensive testing with Playwright (sharded across multiple containers)

Security & ops: Configured Cloud Armor for DDoS protection, set up IAM properly, managed secrets with Secret Manager. Built monitoring dashboards with Google Cloud Operations.

TECHNICAL SKILLS

Languages & Frameworks: JavaScript/TypeScript, Node.js, Express, NestJS, React, Next.js, GraphQL, Prisma

Databases: PostgreSQL (including 4B+ record management), MySQL, Redis, MongoDB. Strong on query optimization and database design.

Cloud Platforms:

- AWS: EC2, RDS, S3, Lambda, CloudWatch, Auto Scaling, Load Balancers, CloudFront
- Google Cloud: Cloud Functions, Cloud Run, Cloud SQL, Pub/Sub, Cloud CDN
- Azure: VMs, Functions, Blob Storage, DevOps

Infrastructure & DevOps: Docker, Kubernetes, Nginx, Terraform, CI/CD (GitHub Actions, GitLab CI), monitoring tools

Real-time & APIs: Socket.IO, WebSockets, REST APIs, microservices, message queues (Bull, RabbitMQ)

Productivity: Advanced Claude prompt engineering for infrastructure automation, code optimization, and debugging. This is a genuine skill that 10x's my output.

WHAT I DO BEST

Backend & Infrastructure

- Design and scale backend systems that handle real traffic
- Multi-cloud deployments (AWS, GCP, Azure)
- Database management at scale (4B+ records in PostgreSQL)
- Performance optimization and troubleshooting

Leadership & Dev Velocity

- Lead technical teams and mentor developers

- Build CI/CD pipelines that actually work
 - Advanced prompt engineering with Claude (10x productivity hack)
 - Bridge the gap between business needs and technical execution
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Education

Computer Science

Federal University of Petroleum • Delta State, Nigeria

10/2023

Best graduating software engineer and also AbS app was used by over 4k students on campus through my effort on the startup.