

MICHAEL CHEGE

Software Engineer | Node.js | TypeScript | API Development

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PROFESSIONAL SUMMARY

Software Engineer with strong hands-on experience building RESTful APIs, working with relational databases, and solving complex system issues in production environments. Trained in backend architecture, data modeling, and scalable system design through intensive engineering coursework and applied technical roles. Comfortable collaborating across frontend, product, and operations teams to deliver performant, reliable backend services. Strong foundation in algorithms, data structures, and structured debugging.

TECHNICAL SKILLS

Backend Development: Node.js, TypeScript, Express.js, REST API design

Databases: PostgreSQL, MySQL, SQL, relational data modeling, Redis (foundational)

ORMs & Tools: Prisma (foundational), Git, NPM

Architecture Concepts: Service-oriented design, microservices fundamentals, API versioning

Containers & DevOps: Docker (foundational), CI/CD concepts

Testing: Unit testing concepts (Jest), integration testing fundamentals

Observability: Logging, monitoring concepts, performance troubleshooting

Core Computer Science: Algorithms, data structures, system logic, performance optimization

PROJECT EXPERIENCE

Backend API Development (Node.js + TypeScript)

- Designed and implemented RESTful APIs supporting authentication, CRUD operations, and role-based access control.
- Structured services for scalability using modular architecture and separation of concerns.

- Integrated PostgreSQL databases with ORM tooling and optimized queries for performance.
- Implemented input validation, error handling, and logging for production-readiness.
- Wrote unit tests to validate core service logic and ensure maintainability.

System Optimization & Data Handling

- Analyzed database performance and improved query efficiency through indexing and query restructuring.
- Implemented caching concepts using Redis to reduce response times and improve scalability.
- Documented API endpoints and internal workflows to support cross-team collaboration.

PROFESSIONAL EXPERIENCE

Technical Support Specialist (IT Technician)

Bobtech Engineers | 2025–Present

- Investigate and resolve complex system-level issues through structured debugging and root-cause analysis.
- Collaborate with engineering and operations teams to improve system reliability and service uptime.
- Document technical procedures and support internal tooling improvements.
- Provide real-time technical support and contribute to operational efficiency initiatives.

Technical Support Assistant / Operations

Advacom Limited | 2023–2025

- Delivered technical assistance in a fast-paced environment while maintaining structured documentation.
- Strengthened communication and stakeholder collaboration skills.

PROJECTS

4K Wallpaper App, wallscape.app

Live DemoModern wallpaper discovery app built with Next.js 14, React 18, TypeScript, Tailwind CSS, Zustand, and PostgreSQL (Neon). Features secure auth (bcrypt, JWT, HTTP-only cookies), wallpaper search/categories/favorites, and user collections.

ENGINEERING APPROACH

- Ownership mindset: take responsibility for services and follow issues through resolution.
- Performance-oriented: focus on scalability, clean architecture, and maintainability.
- Collaborative: work effectively with frontend engineers, product managers, and stakeholders.
- Growth-driven: actively deepening expertise in distributed systems, containerization, and production-level backend engineering.

EDUCATION

Software Engineering (Backend Specialization)

ALX Africa | 2023–2024 | GPA: 4.0

KCSE

Ngenia High School | 2017–2020

ADDITIONAL INFORMATION

- Languages: English (Fluent), Swahili (Fluent)
- Comfortable working in Agile and continuous delivery environments
- Interested in AI-powered backend systems and scalable cloud-native architecture