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Backend Developer | Node.js • Docker • Real-Time Systems

Results-driven backend developer specializing in Node.js, and event-driven architectures. Adept at building scalable APIs, automated deployment systems, and real-time applications with a focus on performance, security, and maintainability.

TECHNICAL SKILLS

Backend: Node.js, WebSockets, REST APIs, Python (FastAPI)
DevOps: Docker, Kubernetes (learning), CI/CD, Infrastructure as Code, Bash/Shell
Databases: MongoDB, MySQL
Frontend: React, Next.js, TypeScript, Tailwind CSS
Tools: Git/GitHub, GitHub Actions, TLS/SSL

PROJECTS

OnSocket – No-Code Discord AI bot deployment - (private)
- Built a WebSocket-based Discord gateway with heartbeat checks, session resumption, and no-code bot deployment via Docker
- Implemented jittered heartbeats to optimize network traffic and auto-reconnection for fault tolerance
- Designed for scalability, handling multiple concurrent connections with low latency

Container Manager – Docker Automation - github.com/gidsola/Docker-Container-Manager
- Created a system to dynamically deploy Discord bots in isolated Docker containers
- Automated Dockerfile generation, environment setup, and log streaming to database
- Reduced manual deployment time from hours to minutes using Infrastructure as Code

MicroService – Secure Next.js Server - github.com/gidsola/MicroService
- Developed custom HTTP/HTTPS server for Next.js with TLS 1.3 encryption and security headers
- Automatically switches between HTTP (dev) and HTTPS (prod) with proper certificate management
- Implemented event-driven architecture for efficient request handling

Portfolio Backend(goodsie.ca) – MongoDB Data Layer - github.com/gidsola/MongoConnect
- Built modular MongoDB client for static site generation with schema validation
- Optimized data aggregation from multiple collections to reduce page load times
- Integrated with Next.js for seamless frontend-backend communication

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WORK EXPERIENCE

Software Engineering Student
Centennial College | 2024–Present
- Developing projects in Node.js, Python, and C# with focus on backend systems and databases
- Coursework includes Data Structures, Algorithms, Web Development, and Database Design

Custom Window Manufacturer
Fersina Windows | 2020–2024
- Collaborated with cross-functional teams to meet tight deadlines in fast-paced environment
- Developed problem-solving skills applicable to backend system design and automation

CNC Operator/Programmer
Laicore Fixtures | 2010–2013
- Programmed CNC machines, demonstrating logical problem-solving and precision
- Debugged hardware/software failures in real-time, developing skills transferable to backend error handling
- Maintained and improved manufacturing processes, analogous to system optimization in software

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EDUCATION

Software Engineering Technology
Centennial College | 2024–Present
Relevant coursework: Data Structures, Algorithms, Web Development, Databases

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KEY STRENGTHS

- Backend Development: Scalable APIs, WebSocket servers, and Docker automation
- DevOps & Automation: CI/CD pipelines, Infrastructure as Code, and containerization
- Full-Stack JavaScript: Next.js, React, and Node.js for end-to-end solutions
- Problem-Solving: Methodical debugging of complex systems
- Mentorship: Helping teams adopt best practices and improve code quality