K/B

Keenan Burriss

S o f t w a r e   D e v e l o p e r

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ABOUT ME

Highly driven Software Developer with strong experience in full-stack development, automation solutions, and production-grade systems for engineering and industrial environments. Skilled in designing modular architectures, building scalable APIs, integrating real-time data pipelines, and delivering robust, maintainable codebases. Proven ability to manage complex technical projects end-to-end while collaborating with multidisciplinary teams. Passionate about creating efficient solutions, improving developer workflows, and continuously expanding technical expertise.

SKILLS

Languages & Frameworks

- **JavaScript / TypeScript** (Node.js, Express, Angular)
- **C / C++** (multithreaded servers, device interfaces)
- **Java** (data structures, algorithms)
- **Python** (automation, scripting)
- **HTML5 / CSS / SCSS**

Databases

- **MongoDB** (Compass, dump/restore pipelines, modular driver/tag architecture)
- **MySQL / PostgreSQL**
- **NoSQL design patterns**

Tools and Platforms

- **Windows Server 2019, Linux CLI**
- **Docker** (where applicable)
- **Modbus**, TCP/HTTP Bridging

EDUCATION

BSc Information Technology
North West University
2021 – 2025

EXPERIENCE

Software Developer

MAC Automation — Full-time | 2022 - 2025

Present Developing and maintaining industrial automation systems, cloud dashboards, and hardware-integrated services across MAC Automation, Hawkeye, and CloudWorks product ecosystems.

- Developed multithreaded **C/C++ TCP and Modbus servers**, enabling high-frequency data polling and robust fallback handling.
- Designed and migrated legacy CloudWorks drivers to a **modular driver-tag architecture**, improving maintainability and performance across production deployments.
- Implemented Angular front-end features for operations dashboards, advanced markers, audit tools, and real-time device telemetry.
- Managed deployment workflows on Windows Server 2019 environments, including HTTPS setup, multi-port routing, PWA-compatible hosting, and certificate handling.
- Led troubleshooting of production issues using MongoDB Compass, LM Studio MCP, network tracing, and server-side logging.

Specialised Experience

- Building industrial automation data systems
- Real-time device driver management (Modbus, PLC-driven systems)
- API design & multithreaded architecture
- Full-stack UI/UX implementation and deployment