

MICHAEL RAASHAD McGUIRE

SOFTWARE & AI ENGINEER | DISTRIBUTED SYSTEMS • APPLIED ML • PROTOCOL DESIGN

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SUMMARY

An operator who became technical. I ran companies for twenty years, then formalized the engineering underneath what I was already doing. I ship production systems solo: Rust and Python services, event-driven architectures, calibrated models, private LLM/RAG cores, and multi-agent runtimes — with the evaluation harnesses and safety gates that keep them honest. I build the brakes before the engine.

STACK

Languages: Rust • Python • TypeScript • SQL • Bash • Go • JavaScript

Backend & Services: FastAPI • Axum • Tokio • SQLx • Pydantic • SQLAlchemy • REST • WebSockets • NATS JetStream • Event-driven architecture

Data & ML: PostgreSQL • TimescaleDB • Redis • SQLite • Supabase • pgvector • PyTorch • scikit-learn • Calibrated models • As-of feature engineering • OCR

AI: Vertex AI • Gemini • Vertex RAG • LangChain • Ollama • Unsloth QLoRA fine-tuning • Private LLM/RAG cores • Multi-agent orchestration • Prompt and eval design

Infrastructure: Docker • Docker Compose • Google Cloud Run • AWS • Cloudflare • Traefik • GitHub Actions CI/CD • Secret Manager • Hetzner

Security & Reliability: JWT • RBAC • Argon2 • AES-GCM • TOTP • Audit logging • Rate limiting • Kill-switch controls • Health checks • Verification pipelines

PROJECTS

SharpShooterBoard v0.8.8 — local-first sports intelligence terminal. Timestamped sports and sportsbook ingestion, as-of feature engineering, calibrated models, multi-future simulation, market-edge grading, OCR ticket analysis, CLV and bankroll tracking. FastAPI, Streamlit and Telegram surfaces, with launch preflight, liveness and readiness probes, and enforced changelog/inventory/lessons-learned governance.

Trap House Traders — autonomous financial intelligence platform. Rust-first distributed services: market ingestion, event normalization, strategy engines, risk systems, OMS, broker execution, AI reasoning. 14+ broker and market data integrations with failover and execution safety boundaries. Full stack run solo on PostgreSQL/TimescaleDB, Redis, NATS JetStream, Docker, Cloudflare.

Agent Michael — safety-gated trading core. Live execution disabled by default behind three independent environment gates including an explicit risk acknowledgement token. Paper-order API, typed orders, full test suite.

Six First Dates — multi-service AI platform. React 19 / Vite web, Expo React Native mobile, FastAPI backend, AI orchestration layer and a private LLM/RAG core on Cloud Run. Consent controls, RBAC, audit logging, monetization. Load-tested to 25,000 simulated users.

CEAL — peer-to-peer lending. AI assistant on both the borrow and lend side: loan purpose capture, dynamic term and interest suggestion, offer matching, status tracking.

CERTIFICATIONS & EDUCATION

Certifications: CompTIA Security+, Network+, A+ • LPI Linux Essentials • AWS Certified Cloud Practitioner • Google Cloud • Google IT Support • ITIL Foundation • CAPM • U-M Leadership MicroMasters (Ross) • 25+ more, all link-verifiable

Education: B.S. Information Technology, Western Governors University (2026) • A.A. Business, Lewis College