ADNAN BERIK

CYBER DEFENSE OPERATIONS | SOFTWARE, SYSTEMS, AND SECURE INFRASTRUCTURE
Hampton, VA | Open to U.S. remote, New York, and Washington, D.C. | adnanberik@hotmail.com
linkedin.com/in/adnanberik | github.com/WaffleBits | wafflebits.github.io/WaffleBits

PROFESSIONAL SUMMARY

Active TS/SCI clearance (DoD). Active-duty U.S. Air Force cyber defense professional and independent software developer. Founder and operator of a Minecraft network with 35,225 unique players, plus systems work in C++, Python, and Rust: a matching engine, GPU kernels, and a secured inference gateway.

PROFESSIONAL EXPERIENCE

Mission Assurance Technician (Cyber Defense Operations, 1D751B) | 2023 - Present
United States Air Force | MAJCOM Cyberspace Coordination Center

- Act as tier-3 escalation owner for the enterprise network monitoring and observability platform (SolarWinds), handling configuration, integration, and the issues no other tier could resolve.
- Built a multi-source tracking and dashboard capability that fused 216,000 data points into four live dashboards, cutting threat-resolution time from five days to two.
- Led 11 personnel through 18 enterprise remediation taskings, hardening five at-risk sites and roughly 30,000 assets.
- Serve as a tier-2 analyst in a command-level cyberspace coordination center, owning incident triage, escalation, and cross-organization response in a 24/7 enterprise environment.

TECHNICAL SKILLS

Independent JVM Platform Engineering: Java; Maven and Gradle; HikariCP connection pooling; MySQL and SQLite; schema migrations; event-driven plugin APIs; concurrency and async task scheduling; unit testing; Linux JVM deployment on ARM.
Independent Automation and Integration: Java; Python; TypeScript; FastAPI; React; SQL and MySQL; Bash; Git and GitHub Actions; Docker; Prometheus; structured audit telemetry.
Independent Systems and AI Infrastructure: Python; C++20; FastAPI; Prometheus; Docker; Kubernetes; Linux; deterministic testing; baseline regression checks; Oracle Cloud personal operations.

SELECTED INDEPENDENT ENGINEERING

wafflesonne.com Game Network | Independent founder and operator | Java | Maven | MySQL | SQLite | Linux | Oracle Cloud

- Founded and operate a public Minecraft network since August 2020, reaching 35,225 unique players and about 700 Discord members on a single Linux cloud VM.
- Author and maintain roughly 45,000 lines of original Java across a dozen server-side plugins, built with Maven and Gradle, with unit tests on core logic.
- Architected the largest plugin in layered packages with a HikariCP-pooled MySQL and SQLite persistence tier, a schema migration service, role and permission hierarchies, event listeners, and Discord integration.
- Operate Linux-based cloud-hosted services with monitoring, performance troubleshooting, and operational automation.

Market Microstructure Engine | Independent project | Python | C++20 | Deterministic testing | CI

- Built deterministic Python and C++ limit-order-book engines with price-time priority, partial fills, cancellation, and cross-language CI parity checks.

Secure GPU Inference Gateway | Independent project | Python | FastAPI | Redis | Docker | Kubernetes

- Built a gateway with JWT validation, role- and reason-based authorization, structured audit events, Prometheus metrics, and atomic Redis limits, proxying streaming vLLM traffic.
- Measured the control path at 4.7 ms added p50 against a null backend, and added CI checks for dependency auditing, SBOM generation, image scanning, and a Kubernetes smoke test.

Triton Kernel Lab | Independent project | OpenAI Triton | Python | GPU kernels

- Wrote fused RMSNorm and SwiGLU GPU kernels in OpenAI Triton, validated against FP32 oracles and benchmarked on consumer hardware.

EDUCATION AND CREDENTIALS

Western Governors University | Expected Mar 2027
B.S. Cybersecurity and Information Assurance
Community College of the Air Force
A.A.S. Cybersecurity (in progress)
Northern Virginia Community College
Computer Science coursework
Clearance: Active TS/SCI (Dept of Defense) | No polygraph
Certifications and Training: CompTIA Security+ CE | CompTIA Network+ CE | CompTIA A+ CE | CompTIA Secure Infrastructure Specialist (CSIS) | CompTIA IT Operations Specialist (CIOS) | ITIL 4 Foundation (IT Service Management) | AWS Technical Essentials (training)