



Yared Kinetibeb Tesfaye

Full-Stack & Backend AI Engineer | Python, Go, Node.js, PostgreSQL | Agentic Workflows & Cloud Systems | CE @ AASTU

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University: Addis Ababa Science and Technology University (AASTU)

EXECUTIVE SUMMARY

Highly passionate 5th-Year Computer Engineering Senior student at Addis Ababa Science and Technology University (AASTU) specializing in Full-Stack Software Engineering, Cloud-Native Systems, AI Code Security & AST Parsers, and High-Performance Applications. Proven track record of architecting cloud-native Kubernetes chaos resilience meshes, agentic AI security auditors, real-time medical oscilloscopes, and lock-free high-frequency trading queues. Seeking an engineering internship opportunity to contribute hands-on expertise in Advanced Computer Science, Artificial Intelligence, and Full-Stack Systems Development.

TECHNICAL SKILLS & DOMAIN PROFICIENCY

Languages & Core	Go (Golang 1.22), Python 3.11, C/C++, TypeScript, JavaScript (ES6+), Dart, Embedded C, SQL
Web & Frameworks	React 18, Next.js, Three.js 3D WebGL, Flutter, HTML5 Canvas 60FPS, Web Audio API, Tailwind CSS, Node.js, Express
Cloud & Databases	Kubernetes v1.30, Docker, eBPF Telemetry, Istio Service Mesh, Linux/Bash, Redis Pub/Sub, PostgreSQL 15, MongoDB, Git
AI & Hardware	Python AST Compiler Parsers, SentinelAI Code Auditor, OWASP Security Rules, ATmega328P Bare-Metal, FreeRTOS, Proteus VSM

FEATURED ENGINEERING PROJECTS

KUBE-Sentinel — Autonomous Kubernetes Mesh & Chaos Resilience Engine <i>Go 1.22 Kubernetes eBPF Istio Docker</i>	Engineered an autonomous cloud-native K8s resilience platform featuring 60 FPS HTML5 Canvas DAG topology visualizer, eBPF sub-millisecond network span tracing, automated Chaos Monkey fault injection (pod kill, latency spikes, packet loss), and self-healing watchdog.
SentinelAI — Agentic AI Code Security & AST Vulnerability Auditor <i>Python 3.11 AST Compiler OWASP Top 10 DevSecOps</i>	Built an autonomous static vulnerability parser analyzing code ASTs to detect SQL Injections, API secret leaks, buffer overflows, and panic loops. Integrated 6-axis OWASP risk radar chart and 1-click unified Git Diff auto-remediation patch synthesizer.
SYNAPSE-Med — Emergency ICU Vital Telemetry & NEWS2 Evaluator <i>Go 1.22 Python Web Audio API HTML5 Canvas</i>	Architected an ICU patient telemetry console with 60 FPS 12-lead ECG and SpO2 waveform oscilloscope, automated NEWS2 clinical sepsis warning evaluator, 8-bed ICU ward matrix, QRS sound synthesizer, and thermal ECG rhythm strip PDF exporter.
FinPulse Engine — Sub-Microsecond High-Frequency Trading Platform <i>Go 1.22 Lock-Free Ring Buffer Black-Scholes VaR</i>	Developed a sub-microsecond atomic lock-free SPSC ring buffer order queue, L2 price-time priority matching engine, VWAP/TWAP order slicer, Black-Scholes options Greeks calculator, and 95% Monte Carlo Value-at-Risk simulator.
NexusIoT Edge — Industrial SCADA & 3D WebGL Digital Twin <i>Go Redis Pub/Sub Three.js WebGL PostgreSQL</i>	Engineered high-throughput telemetry ingestion microservices handling 100,000+ msgs/sec with Three.js 3D WebGL wind turbine Digital Twin, fault injection SCADA controls, and real-time sensor anomaly warning alerts.

EDUCATION & VERIFIED CERTIFICATIONS

B.Sc. in Computer Engineering (5th-Year Senior) Addis Ababa Science and Technology University (AASTU)	Key Coursework: Operating Systems, Distributed Systems, Computer Architecture, Embedded C/FreeRTOS, Data Structures & Algorithms, Software Engineering, Database Systems.
Verified Professional Certifications	• Simplilearn Generative AI Literacy (LLMs & Prompt Engineering) • Udacity Full-Stack Web Developer Nanodegree (Cloud APIs & PostgreSQL) • FreeCodeCamp Responsive Web Design Certification