

KIM KAKIIZA

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EDUCATION

Gannon University | School of Engineering and Computing
Bachelor of Science in Computer Science, GPA: 3.4

Expected May 2027
Erie, PA

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, React, React Native, Next.js
ML/AI: PyTorch, HuggingFace, LangChain, RAG, Prompt Engineering
Infrastructure/Tools: AWS (S3, EC2, Lambda, RDS), Docker, Supabase, PostgreSQL, FastAPI, Expo, REST APIs, CI/CD, Git
Sales & Business Tools: HubSpot CRM, Microsoft Excel (Advanced), PivotTables, XLOOKUP, Sales Pipeline Management

EXPERIENCE

Research Assistant Aug 2023 – Dec 2023
Gannon University Erie, PA

- Improved automated test execution efficiency by 30% by developing Java and Selenium testing workflows
- Reduced recurring defects by 10% through structured debugging and peer code reviews

Staff Assistant — RiSSE Summer Camp July 2026
Gannon University | Project NePTWNE Erie, PA

- Designed and facilitated evening journal reflection prompts for high school youth at a week-long residential environmental science program examining Lake Erie coastal ecology and human environmental impacts
- Supported ELI-A pre- and post-assessment administration to measure participant learning outcomes across the program week
- Contributed to STEM education delivery under Project NePTWNE, Gannon University's initiative applying nano and polymer technology to water quality challenges in the Erie region

Building and Facility Supervisor Sept 2024 – Present
Gannon University Erie, PA

- Coordinated incident response and task prioritization for high-traffic facilities under time constraints
- Managed scheduling and operational workflows to ensure service reliability and timely issue resolution

Product Design Intern Jan 2023 – Dec 2023
Unilever Kampala, Uganda / Hybrid

- Refined product prototypes using user feedback to improve usability and design quality
- Collaborated with cross-functional teams to align design iterations with product requirements

Cybersecurity Simulations — Consulting & Analyst Nov 2025 – Dec 2025
PwC & Mastercard (Forage) Remote

- Conducted risk assessments, documented control gaps, and produced executive summaries for non-technical stakeholders
- Analyzed phishing and social engineering scenarios; recommended preventive controls and awareness improvements

PROJECTS

RoutePulse Logistics | *Python, FastAPI, Next.js, Expo, React Native, PostgreSQL, Supabase, Docker* 2025 – 2026

- Designed multi-tenant PostgreSQL schema with RLS policies isolating data across organizations; enforced at DB, application, and API layers with a typed **Principal** model (`user_id`, `org_id`, `role`, `driver_id`)
- Built FastAPI JWT auth middleware resolving Supabase tokens to principals; applied RBAC via `async require_admin`, `require_dispatcher_or_admin`, and `require_driver` dependencies across all routes
- Shipped dual-experience Expo React Native app (customer + driver) in one codebase; used `expo-secure-store` for keychain-backed token persistence and patched 2 critical Next.js CVEs during security audit
- Wrote 106 pytest tests across 15 files covering RLS policies, auth middleware, RBAC permissions, and cross-tenant data isolation

IT/VAR Sales Operations Portfolio | *HubSpot CRM, Excel, PivotTables, XLOOKUP* | [GitHub](#) 2026

- Built 20-account IT/VAR pipeline in HubSpot Free CRM across Federal Contractor, SLED, Healthcare, and Financial segments; configured 7 deal stages with win probabilities, imported contacts/deals via CSV, and logged calls, emails, and follow-up tasks
- Engineered Excel dashboard tracking \$1.4M+ ARR across 20 active deals using XLOOKUP, PivotTables, and weighted forecast formulas; built margin/discount calculator with sensitivity analysis across 8 discount scenarios

LLM-Powered RAG Chatbot | *Python, Next.js, LangChain, Supabase, Ollama* 2025

- Built a full-stack chatbot answering questions over private documents using retrieval-augmented generation and a local Ollama model
- Implemented ingestion and chunking pipeline with LangChain; stored embeddings in Supabase for fast semantic retrieval
- Developed Next.js chat interface with streaming responses and guardrails for empty retrievals and model timeouts

LEADERSHIP & ACTIVITIES

Representative / Liaison | Black Student Union Sept 2023 – Sept 2024
Gannon University Erie, PA

- Promoted cultural awareness and helped organize campus events, community discussions, and outreach programs