

ADONIS MACBUTSCHER

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SUMMARY

Junior Computer Science student at Howard University pursuing roles in software engineering, cybersecurity, and data systems. Builds and operates a two-node Proxmox homelab: a distributed marketplace intelligence pipeline collecting and normalizing data across Grailed, Depop, and Vinted, plus a self-hosted LLM inference and orchestration server (llama.cpp/CUDA, MoE model serving). CompTIA A+ and Google IT Support certifications training, with CompTIA CASP+ in progress. Targeting summer 2026 internships in software engineering, data/ML, and cybersecurity/defense.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, HTML/CSS, SQL

Systems & Infra: Linux (Ubuntu), Proxmox VE, Docker, LXC containers, systemd, Tailscale, Pi-hole, Grafana/Prometheus

Data & Backend: PostgreSQL (asyncpg, SQLAlchemy), async Python (asyncio, aiohttp), REST APIs, pandas, SQL

ML & AI: llama.cpp (CUDA), Ollama, local MoE inference, multi-agent orchestration (Hermes), Qwen3, DeepSeek R1, model deployment

Security: Network segmentation, DNS filtering, Linux hardening, credential rotation, CompTIA A+

Tools: Git/GitHub, VS Code, Playwright, Camoufox, Selenium, pytest, Wireshark, Nmap

PROJECTS

Distributed Marketplace Intelligence Pipeline — *Python · asyncpg · PostgreSQL · systemd*

- Built and operate a concurrent data-collection pipeline across Grailed, Depop, and Vinted, each running as an independent systemd service against a shared PostgreSQL backend
- Reverse-engineered Grailed's GraphQL API for direct structured ingestion; used Camoufox for JavaScript-heavy platforms requiring browser-level rendering
- Standardized scrapers on a per-brand target-list config pattern with real-time automated alerting; designing a pgvector semantic-similarity layer to auto-flag underpriced listings

Self-Hosted LLM Inference & Orchestration Platform — *llama.cpp · CUDA · Proxmox VE · Hermes*

- Compiled and tuned llama.cpp with CUDA support on a dedicated inference node (RTX 2070), serving a 35B-parameter MoE model at ~20 tok/s through optimized KV-cache settings
- Deployed Hermes, a multi-agent orchestration framework, routing tasks between a cloud orchestrator model and local worker models by task complexity
- Built out a two-node Proxmox VE cluster with LXC-based network services (Pi-hole DNS filtering, Grafana/Prometheus monitoring, Tailscale mesh networking)

Coursework Projects — *C++ · Java · Python*

- Data Structures & Algorithms (C++): implemented stacks, queues, linked lists, and sorting algorithms; analyzed time/space complexity with structured test cases
- Object-Oriented Programming (Java): designed modular applications using inheritance and polymorphism, applying clean-code principles

EXPERIENCE

Food Service Operations | Holy Cross Hospital (Trinity Health) Aug 2024 – Present

- Used internal hospital software to track and manage patient meal delivery workflows, coordinating with medical staff to maintain accuracy and timeliness
- Streamlined the meal release process, improving operational efficiency across shifts

Apprentice | Macka Building Services Jun 2019 – Present

- Assisted with HVAC repair and replacement for residential and commercial clients across the DMV area
- Maintained tools and prepped company vehicles to ensure job readiness and minimize downtime

Team Member | Chick-fil-A, Gaithersburg MD Jun 2023 – Dec 2023

- Managed opening/closing duties and maintained quality during peak hours; contributed to team efficiency and customer satisfaction

EDUCATION

B.S. Computer Science | Howard University, Washington DC Expected May 2027

Relevant coursework: Advanced Data Structures, Python, SQL • ~90 credits completed

A.S. Computer Science | Montgomery College, Rockville MD Expected May 2025

Relevant coursework: Data Structures, Algorithms, Object-Oriented Programming (C++, Java)

CERTIFICATIONS

- CompTIA A+ — Per Scholas, Silver Spring MD (Sep 2022)
- Google IT Support Professional Certificate — Per Scholas (Sep 2022)
- CompTIA CASP+ — In Progress