Symaedchit Octavius Leo

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SUMMARY

Computer engineer who builds and evaluates ML systems: LLM fine-tuning, quantization and serving, grounded RAG with citation validation, agent prompt-injection benchmarks and GPU-parallel RL. Seeking AI/ML engineering roles.

EXPERIENCE

Associate (Java Full Stack Developer) · Revature, McLean, VA — Jun 2026 – Present

Client: large U.S. financial services company

- Develop features for an enterprise fraud case-management application: a Spring Boot 3 service (Java 17, REST and GraphQL APIs, MongoDB, AWS S3) and Angular 17 micro frontends.
- Plan and build features with an AI coding agent using spec-driven development (Kiro specs and steering rules).
- Ship changes through a CI/CD pipeline that runs unit and BDD integration tests (JUnit 5, Mockito, Cucumber, WireMock; Jest, Cypress), code-quality and security scans, and Kubernetes deployments.

Java Full Stack Pre-Employment Program · Revature — Feb–May 2026

- Completed full-time Java full stack and test automation training; co-built the capstone (Java 21, Spring Boot, Spring Security/JWT, Angular; 83 passing tests) and its Jenkins CI/CD pipeline on AWS EC2.

Machine Operator (Seasonal) · Western Diverse Plastics — Jun–Jul 2023, Jul–Aug 2024

PROJECTS

Built with an AI coding agent under spec-driven development; every number below comes from a seeded script in the repository.

Grounded QA Service · *Python, FastAPI, Granite on Ollama, cross-encoder reranking, Docker* — Grounded-QA-Service

- Built a RAG service that answers only from retrieved passages, validates every sentence's citation against what was retrieved, and refuses below a confidence threshold tuned on a held-out split.
- On 150 answerable SQuAD v2 questions, hybrid retrieval with cross-encoder reranking raised Recall@5 from 0.847 to 0.957 (paired gain +0.110 [+0.063, +0.163]); 0 of 19 classified prompt-injection cases reached an answer.

Fine-Tune and Serve · *Python, PyTorch, Hugging Face PEFT (LoRA), llama.cpp, Docker* — Finetune-And-Serve

- LoRA fine-tuned Qwen2.5-1.5B-Instruct for intent-and-slot extraction on MASSIVE: field-level F1 0.850 ± 0.002 over 3 seeds on 2,974 test examples, vs. 0.358 for the few-shot base model and 0.687 for a hosted classification API.
- Quantized to GGUF Q4_K_M (F1 0.846, peak VRAM 4,859 to 2,617 MiB), served via an OpenAI-compatible llama-server endpoint, and load-tested on an RTX 3080: 16 concurrent clients sustained at P95 1.35 s.

Agent Injection Bench · *Python, AgentDojo, llama.cpp, OpenAI API, DeBERTa classifier* — Agent-Injection-Bench

- Built a reproducible benchmark of how often tool-using LLM agents follow instructions planted in tool outputs and what each defense costs: 40 AgentDojo tasks, up to 5 injection styles, 4 defenses, 3 models, 7,200 cases.
- Task-clustered and paired bootstrap CIs showed a DeBERTa prompt-injection filter costing 26.5 to 56.2 points of task success for at most a 2.3-point drop in attack success; delimiter and hierarchy prompts gave no reliable drop.

Learned Opponents · *Python, PyTorch, MuJoCo Warp, rsl-rl PPO, ONNX, Unreal Engine 5.8 (C++)* — Learned-Opponents

- Trained PPO navigation policies in 4,096 GPU-parallel MuJoCo Warp arenas, baseline vs. domain-randomized, 3 seeds each: at 200 ms of action and observation latency the baseline fell to 0.131 success vs. 0.896 randomized.
- Exported the policies to ONNX and ran them as the opponent in an Unreal Engine 5.8 game via NNE; an automated transfer check on identical layouts measured a +0.013 MuJoCo-to-Unreal success gap (2 of 150 episodes).

TECHNICAL SKILLS

Languages	Python, Java, SQL, C/C++, TypeScript, Lua
ML & LLMs	PyTorch, Hugging Face Transformers, PEFT/LoRA, llama.cpp, GGUF, Ollama, ONNX Runtime, PPO
Evaluation	Hybrid retrieval, cross-encoder reranking, Recall@K, nDCG, F1, bootstrap CIs, LLM-as-judge
Engineering	FastAPI, Spring Boot, GraphQL, MongoDB, Docker, Kubernetes, GitHub Actions, Jenkins, AWS

EDUCATION

Michigan State University · B.S. Computer Engineering · GPA 3.31/4.0 — Dec 2025

Kalamazoo Valley Community College · A.S. Chemical Physics · GPA 3.94/4.0 — Apr 2023