

Romanus Angina

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EDUCATION

Rice University

Houston, TX

B.S. Electrical & Computer Engineering, B.A. Computer Science — GPA 3.66/4.0

Aug 2023 – May 2027

- **Key Coursework:** Data Structures & Algorithms, Machine Learning, Computational Thinking, Computer Architecture, Program Design, Linear Algebra

EXPERIENCE

Agentic AI Services (Startup)

Houston, TX

Software Engineer Intern

Jun 2025 – Present

- **End-to-End Web Platform:** Engineered CUSI, a ground-up construction ops platform automating scheduling, work orders, and materials; cut Project Management admin time by 28%.
- **Profiling & performance:** Instrumented request tracing (Azure Monitor / Application Insights) and removed avoidable allocations + trimmed payloads; reduced API p95 latency in staging by 20%.
- **AI Automation:** Implemented ML for crew/equipment allocation and site assignment, boosting utilization by 14% and reducing conflicts by 36%

Handshake

Remote

MOVE AI Fellow

Jun 2025 – Aug 2025

- **Multilingual Video Annotation:** Annotated critical objects, gestures, and context in 100+ videos, expanding CV training sets and improving accuracy by 12%
- **Prompt Engineering:** Authored and iterated 100+ domain prompts in Swahili/English, enabling stronger LLM performance in a low-resource language
- **LLM Quality Assurance:** Reviewed 200+ outputs for factuality, nuance, and code reliability, raising internal eval scores by 6%

Stealth Health-Tech Startup

Houston, TX

Software Engineer Intern

Mar 2025 – Jun 2025

- **Tele-health Dashboard:** Built a full-stack React/Node/MongoDB app for 50+ patients, enabling AI voice check-ins and real-time transcripts
- **Voice AI Automation:** Connected GPT-4 RAG with Twilio/ElevenLabs to automate 90% of daily follow-ups, saving nurses 3 hr/wk
- **Audit-Ready Logging:** Implemented HIPAA-ready logging; streamed encrypted call data to MongoDB across 200+ calls

PROJECTS

- **C++ Ray Tracer:** C++17 from-scratch ray tracer: custom math types, camera, materials, recursive ray casting, image output; wrote tests for vec/geom ops, profiled hot loops, and cleaned memory/ownership (`unique_ptr`, `span`) with RAII. Built with CMake; debugged with `gdb` and `valgrind`.
- **Smart Notifications:** AI Slack app that classifies messages and only DMs critical alerts, cutting notification noise by ~1 hr/day
- **MLB Travel-Fatigue Analyzer:** Elo-feature + XGBoost (ROC-AUC 0.79); folium travel burden visualization; 1st place at Rice Datathon

TECHNICAL SKILLS

- **Languages:** C++17/20, Python, C, JavaScript/TypeScript, SQL, Swift, Verilog/VHDL
- **Systems/Tooling:** Linux, `gdb/valgrind`, CMake, Git, clang-tidy, perf
- **Frameworks:** React, Next.js, Node.js, AWS, Docker, Kubernetes, PyTorch

PROFESSIONAL DEVELOPMENT

- **Organizational Involvement:** Microsoft Emerging Leaders Fellow, NSBE Member, ColorStack Member

AWARDS

1st Place, Hack the Stack (AI) | Winner, Rice Datathon