

Serafin O. Gargantiel III

Chicago, IL | gargantielserafin@gmail.com | iamserafinnn.github.io | linkedin.com/in/serafingargantieliii

EDUCATION

University of Illinois at Chicago (UIC) / Chicago, IL Aug 2022 – May 2026
B.S. in Computer Science, Software Engineering Concentration | GPA: 3.42/4.00 | Dean's List (Spring/Fall 2023)

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Three.js, FastAPI, FAISS

Tools & Platforms: Git/GitHub, VS Code, Linux CLI, PostgreSQL, Jupyter Notebook, Android Studio, IntelliJ IDEA

EXPERIENCE

Open Source Contributor - HertzBeat Site Refactoring / Remote June 2026 - Present

- Identified and resolved a UI/UX regression in Apache HertzBeat's blog layout affecting the production documentation site
- Merged open source PR to Apache Burr adding UI server documentation, closing a gap flagged by maintainers in a production React/Docusaurus codebase
- Improved responsive layout behavior by restructuring blog components within the existing React codebase to render correctly across screen sizes

CodePath - Applied AI Engineering & Intermediate Cybersecurity / Remote Feb 2026 – Present

- Merged open source PR to Apache Burr navigating a production React/Docusaurus codebase under maintainer review
- Detected phishing email campaigns by analyzing SMTP traffic across thousands of packets in Wireshark pcap captures
- Practiced incident response in Splunk auditing brute-force attempts, unauthorized access, and indicators of compromise

Global Career Accelerator - Data Analytics & Wrangling / Remote Aug 2024 – Nov 2024

- Delivered data-driven recommendations for The Recording Academy (Grammy.com) and Intel's Sustainability team by analyzing real-world datasets in SQL, Python (Pandas / Plotly), and Tableau
- Earned SQL Specialist and Python Specialist certifications
- Collaborated across cross-cultural teams on hands-on data challenges using Jupyter Notebook and relational databases

PROJECTS

EpicCode - Amazon Product Reviews Semantic Search / FAISS, PostgreSQL, FastAPI, React, Python

- Engineered a semantic search engine over 800K+ Amazon reviews, reducing query latency by ~35% through PostgreSQL optimization and FAISS vector indexing.
- Deployed a full-stack application with FastAPI and React/Vite, enabling end to end semantic search via Railway and GitHub Pages.
- Expanded a 3-person, 4-month team project by independently designing and implementing a production-ready React frontend.

Android - AIDL Bound Service System / Java, IPC, AIDL

- Independently built a cross-process Android application where FunClient requests and renders media (images/audio) served by FunCenter via AIDL bound service interfaces
- Implemented multithreaded Java services to handle concurrent media requests between decoupled client and server processes over IPC
- Designed a service-oriented architecture with strict interface contracts, enabling independent client/server communication without shared memory

WildRealms - Immersive Biome 3D Simulator / React, Three.js, JavaScript

- Developed an interactive 3D wildlife simulator by building real-time WebGL scenes with React and Three.js with dynamic lighting, camera control, and 3D model integration for immersive navigation.
- Rendered desert and tundra biome environments by optimizing scene organization, object management, and rendering performance.
- Solely built the desert and tundra biomes, integrating 3D environments with interactive animal placement and player discovery mechanics across both scenes