

KYLE-ANTHONY HAY

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EDUCATION

City University of New York(CUNY), Hunter College

June 2024

Bachelor of Science in Computer Science

Relevant Coursework: Discrete Structures and Algorithms, Software Engineering, Object Oriented Programming

SKILLS

Programming: C++(3 yr), Python(2 yrs), Swift(4 yrs), Flutter(2 yr), JS(2 yr), SQL(3 yr), Java(2 yrs)

Technologies: ChromaDB, AWS, Langchain/Langraph, Pandas, React, MongoDB, SpringBoot

EXPERIENCE

AI Engineer ([Cognizant](#))

November 2025 – Present

- Implemented an ETL pipeline that optimized 1 million row querying by 99%
- Fine-tuned a DistilBERT transformer model, improving sentiment analysis accuracy by 25%
- Completed 40+ exercises on RNNs, CNNs, Fine-Tuning, Embedding, Vectorization and more

Software Engineering Intern ([The Difference](#))

July 2023 – Sept 2023

- Built a web-based version of a fitness app from Figma design using WordPress and HTML/CSS
- Led evaluation and research of web-building technologies for the company's app-to-web migration
- Developed two front-end demo applications, showcasing dynamic data display

PROJECTS

[SelahNote](#)(Founder)

Present

- Took SelahNote from 0→1, developing, and deploying to the App Store in 2 months (200+users)
- Built real-time WebSocket pipeline for streaming audio, AI transcription, and agent-driven responses
- Designed vector search system using Pinecone and implemented secure multi-device sync with Convex

[Sentiment Analysis Platform](#)

Jan 2026

- Integrated AWS Bedrock LLMs and handled semantic retrieval using ChromaDB and RAG architecture
- Implemented full CRUD operations on customer reviews with a ChromaDB vector database
- Built an AI decision-support platform using FastAPI for backend and Next.js for UI/UX

[ChatGPT Clone](#)

Jan 2026

- Developed a full-stack ChatGPT clone with FastAPI backend and Next.js frontend
- Architected LangGraph agent with RAG using Chroma vector DB for semantic search
- Integrated Supabase PostgreSQL for chat persistence and Docker containerization

[MunchMap](#) (1st place in [Headstarter](#) Hackathon)

Feb 2024

- Collaborated with a team of 3 to build a full-stack application
- Built with React, use-state hooks, and Axios Get/Post requests to Django back-end
- Conducted a live demonstration to an audience of 200+ at Hackathon

ASSOCIATIONS & INTERESTS

Google Student Developers Club – Attend monthly Meetings and heard from over 5 different tech start-up founders

Headstarter Fellow, January 2022 – Attend weekly meetings to hear from founders and developers in the industry