

ETHAN IGNACIO

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SUMMARY

Computer Science student at the University of Illinois at Chicago building AI-driven engineering solutions, with hands-on experience in AI agent development, AWS cloud services, and full-stack automation tooling. Skilled in Python, TypeScript, and SQL, with practical experience integrating LLMs (Gemini, ChatGPT, Claude) into real-world agent pipelines. Seeking an AI Engineering or Software Engineering role where I can apply agentic AI development, cloud infrastructure, and automation skills to build production-ready systems.

SKILLS

Languages: Python, Java, SQL, TypeScript, C++, C

AI / LLM Tools: Gemini, ChatGPT, Claude, n8n, prompt engineering, LLM-based workflow automation, agent pipeline design

Frameworks / Tools: Next.js, JavaFX, MySQL, SQLite, AWS (Lambda, DynamoDB, S3, API Gateway, IAM, CloudFormation, CodePipeline)

Concepts: Machine Learning, Data-Driven Analysis, Web Scraping, UI/UX (Terminal & JavaFX), Server/Client Architecture

EXPERIENCE

AI Agent Engineering Externship — Wayfair

July 2026 – Present

- Building AI agents using n8n and Gemini to track design trends, monitor competitor product launches and pricing, and generate fresh marketing content ideas for Wayfair, a leading e-commerce furniture retailer.
- Developing a moodboard agent that transforms style prompts into curated visual outputs to support design trend discovery.
- Scraping and analyzing competitor websites, blogs, and social media to identify emerging design themes and assess bestseller attributes such as size, color, material, and price.
- Designing a live, auto-updating Google Sheets dashboard that integrates trend, competitor, and AI-generated insights for presentation to Wayfair's supply chain vendor management team.

PROJECTS

Career Agent — Personal AI Automation Project

2026

Python, SQLite, Pydantic, LLM APIs | github.com/eignacio2/career-agent

- Built a Python job-search pipeline that aggregates jobs from multiple sources, filters and deduplicates postings, and deterministically scores roles against candidate skills, experience, and location.
- Developed automated resume and cover-letter tailoring with an optional LLM layer for structured generation and a deterministic validation system to prevent unsupported experience, skills, employers, and metrics.
- Implemented SQLite persistence, modular source integrations with failure isolation, CLI execution, application tracking, and automated tests.

EDUCATION

Northern Illinois University

Starting Fall 2026

Master's Program in Business Analytics and AI

University of Illinois at Chicago

Expected May 2026

Bachelor of Engineering in Computer Science | GPA: 3.20/4.00

Relevant Coursework: Software Design (Java), Data Structures, Machine Organization, Program Design I (Python), Programming Practicum (C), Program Design II (C++), Programming Language Design and Implementation (SQL), Database Systems (SQL)

COURSES & CERTIFICATIONS

Ultimate AWS Certified Developer – Associate

Expected 2026

- Hands-on training with AWS services: Lambda, DynamoDB, S3, API Gateway, IAM, CloudFormation, and CI/CD with CodePipeline.

ACTIVITIES

Association for Computing Machinery — General Member

September 2024 – Present

- Participated in coding practice sessions, workshops, and events to strengthen development skills.

Filipinos in Alliance — General Member

September 2022 – Present

- Attended meetings and collaborated with others in workshops to learn and discuss Filipino culture, as well as learn professional concepts from accomplished Filipino men and women.