

SUMMARY

Recent Computer Science graduate with internship experience in software engineering, AI/ML, and data engineering. Built ML pipelines, chatbots, and cloud systems using Python, GPT APIs, Spark, and AWS. Strong foundation in machine learning, generative AI, and full-stack development. U.S. Citizen.

SKILLS

- **Programming Languages:** Python, SQL, JavaScript, Java, C++, Bash
- **Frameworks & Libraries:** React.js, Flask, Streamlit, scikit-learn, Pandas, NumPy, PyTorch, LangChain, HuggingFace,
- **AI/ML & GenAI:** GPT-4.0, OpenAI API, Embeddings, RAG, LLM fine-tuning, prompt engineering, Pinecone, FAISS, autonomous agents, agentic workflows, Vector Databases
- **Data Engineering:** Apache Spark, ETL pipelines, REST APIs, MySQL, PostgreSQL
- **Cloud & DevOps:** AWS (Lambda, EC2), Docker, Terraform, GitHub Actions, GitLab, Git
- **Concepts:** ML pipelines, information retrieval, data analysis, debugging, software testing, asynchronous systems

EDUCATION

- **The University of Iowa**

Bachelor of Science in Computer Science; GPA: 3.3

Aug. 2020 – June 2025

– Coursework: Database Systems, Computer Organization, Intro to Networks, Data Structures & Algorithms, Linear Algebra, Numerical Methods, Theory of Computation, Probability and Statistics, Software Development.

CERTIFICATIONS

- DeepLearning.AI Prompt Engineering | AWS Cloud Practitioner | Edureka AI/ML | Udemy Agentic Ai | Agentic Ai Openai API

EXPERIENCE

- **Warner Music Group**

Software Engineer Intern

Nov. 2023 – Mar. 2024

– Developed machine learning models to predict album and single rankings by analyzing over **100GB** of data.

– Spearheaded automation of ad targeting strategies, achieving a **20%** reduction in customer acquisition costs.

– Improved ad targeting and artist campaigns using **Python, scikit-learn**, and machine learning algorithms, including Linear Regression.

– Researched and experimented with advanced machine learning techniques (e.g., **Gradient Boosting, Random Forest, XGBoost**) to further improve predictive accuracy.

– Built and optimized data pipelines using tools like **Apache Spark and Pandas**, reducing data processing time by **40%**.
- **Quantum Leap Technologies**

Software Engineer Intern

Dec. 2024 – Present

– Worked on **Generative AI** and **Agentic AI** initiatives, including LLM fine-tuning, prompt optimization, and autonomous agent workflows.

– Optimized **AWS EC2** and **Lambda** infrastructure, supporting **100k+ concurrent users** and cutting API latency by **20%**.

– Designed high-performance **Apache Spark** ETL pipelines with **PostgreSQL**, reducing batch time from **5 hrs** to **3 hrs**, improving reliability by **15%**.

– Refactored front-end components using **React.js** and **JavaScript**, improving load speed by **25%** and boosting engagement by **15%**.

- **OpenAI Projects** (*GitHub*)

- Built multiple applications leveraging **OpenAI GPT APIs, LangChain, and RAG pipelines** for text summarization, Q&A, and intelligent chatbots.
- Implemented **embedding-based search** using **Pinecone/FAISS** for scalable document retrieval.
- Designed **autonomous agent workflows** with prompt chaining and role-based reasoning for task automation.
- Deployed prototypes using **Streamlit and Flask**, integrating APIs for real-time interaction.

- **Sanji AI Chatbot**

- Created a chatbot using **GPT-3.5, Python, React, and Prompt Engineering** for recipe generation.
- Improved **frontend UI** responsiveness, caching efficiency, and **asynchronous backend performance**.