
SKILLS

- **Languages:** Python, Java, C++, C, SQL, HTML, Haskell, JavaScript, React.
- **Technologies:** AWS, Azure, GCP, REST APIs, Git, LLM/LMM serving infrastructure, LLM/LMM evaluation framework, Model training Framework, Deep Learning Frameworks (PyTorch, TensorFlow, Caffe), Apache Spark, scikit-learn.

EDUCATION

- **The University of Iowa** Iowa City, IA
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.
- **The University of Iowa** Iowa City, IA
Entrepreneurial Management Certificate; GPA: 3.4 Jan. 2021 – June 2025

CERTIFICATIONS

- Edureka Data Science and AI, Prompt Engineering - DeepLearning.AI, AWS Cloud Practitioner

EXPERIENCE

- **Warner Music Group** New York, NYC
Software Engineer Intern Nov. 2023 – Mar. 2024
 - Developed machine learning models to predict album and single rankings by analyzing over **100TB** 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%**.
 - Optimized MySQL queries by using **Stored Procedures**, improving database response time by **50%**, enhancing system efficiency.
- **Quantum Leap Technologies** New York, NYC
Software Engineer Intern Dec. 2024 – present
 - Engineered and deployed scalable backend microservices using **Python (FastAPI), Java (Spring Boot)**, and **C++**, enabling seamless integration with third-party **REST APIs** that reduced partner onboarding time by **30%**.
 - Provisioned and optimized cloud resources on **AWS (EC2, Lambda)** improved system scalability to handle **100k+ concurrent users**, cutting latency by **20%**.
 - Designed and implemented ETL pipelines using **Apache Spark, SQL**, and **PostgreSQL**, reducing daily batch data processing time from **5 hours** to **3 hours** and improving data reliability by **15%**.
 - Developed and refactored front-end components in **React** and **JavaScript**, leading to a **25%** improvement in page load speeds and **15%** higher user engagement on the web platform.
 - Collaborated in a cross-functional **Agile team** of 8 (developers, designers, QA) by participating in sprint planning, daily stand-ups, and retrospectives, which improved sprint velocity by **20%** and ensured on-time delivery of key product features.

PROJECTS

- **Disaster Assistance Management System (DAMS)**
 - * Built a full-stack disaster assistance system with **React.js, SQL**, and a **Python (FastAPI/Flask/Django)** API for authentication, resource allocation, and user interactions.
 - * Designed interactive dashboards and reports using **React Chart.js/D3.js** for data visualization and disaster response insights.
 - * Set up CI/CD pipelines using **GitLab and GitHub** with automated tests and code quality checks via **SonarQube and Pytest** for backend logic.
- **Health Care Database Model**
 - * Built a role-based access control (RBAC) web interface using **JavaScript, HTML**, and **Python Flask**, securing data access for patients, doctors, and administrators.
 - * Contributed to a distributed healthcare system using **AGILE methodologies** by integrating electronic records, insurance, and appointments with a normalized **MySQL database**.
 - * implemented **stored procedures and parameterized SQL** queries for billing calculations, insurance copay/deductible resolution, and lab test updates to enhance data integrity.
- **SanjiBOT Cooking AI Chat Bot**
 - * Created a personal chatbot using **GPT-3.5 Turbo API and Python** to generate step-by-step recipes based on ingredients and time, with optional translation into any language.
 - * Engineered a multilingual translation system, enabling recipe generation in **1000+ languages**, broadening accessibility for global users.
 - * Built and visualized the chatbot using **React.js and HTML**, providing a user-friendly interface for interaction.