
SKILLS

- **Languages:** Python, Java, C++, C, SQL, HTML, Haskell, JavaScript, React.
- **Technologies:** AWS, Azure, GCP, REST APIs, Git, ML prediction service, LLM/LMM serving infrastructure, LLM/LMM evaluation framework, Model training Framework, Deep Learning Frameworks (PyTorch, TensorFlow, Caffe), 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 / Quantum Leap Technologies** New York, NYC
Software 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 or 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 Intern *Dec. 2024 – present*
 - Designed and developed scalable backend services using **Python, Java, and C++**, integrating with **REST APIs** to enhance system interoperability.
 - Deployed and managed cloud-based infrastructure on **AWS, Azure, and GCP**, optimizing application performance and scalability.
 - Built and maintained data pipelines using **SQL, Apache Spark, and PostgreSQL**, reducing data processing time by **40%**.
 - Developed front-end components using **React and JavaScript**, improving user experience and interface responsiveness.
 - Utilized **Git** for version control and collaborated in an Agile environment to streamline development and deployment workflows.

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.
- **Health Care Database Model**
 - Contributed to a distributed healthcare system using **AGILE methodologies** by integrating electronic records, insurance, and appointments with a normalized **MySQL database**.
 - Developed a secure, role-based web interface with **JavaScript/HTML** and a **Python back-end**, managing authentication, appointments, billing, and lab results.