EDUCATION

Bachelor of Science in Computer Science and Data Science

University of Wisconsin-Madison | Minor in Economic Analytics

August 2021 - May 2025

TECHNICAL SKILLS

Programming Languages: JavaScript, Java, Python, R, C/C++, SQL, TypeScript, HTML/CSS, Swift

Frameworks/Libraries: Next.js, React.js, Node.js, Angular.js, Pandas, NumPy, Flask, Keras, TensorFlow, PyTorch, .NET, MindAR

Databases and Tools: MySQL, MongoDB, PostgreSQL, Docker, Kubernetes, GitHub, Postman, Nginx

Concepts/Skills: Multi-Agent Systems, Generative AI, Data Structures & Algorithms, Full Stack Development, REST APIs, Microservices

Relevant Coursework: Big Data, Computer Architecture, Discrete Math, Linear Algebra, Parallel & Throughput Programming

WORK EXPERIENCE

Fullstack Developer | Mountain House Media, Rochester, NY

August 2025 – Present

- Engineered full-stack features for a SaaS platform designed to help creative professionals in media production manage and track their ongoing projects, using Next.js, Node.js, Express, and Python; improved workflow efficiency by an estimated 30%.
- Led the integration of **Generative AI capabilities**—including image and video generation, background removal, and upscaling—by developing and optimizing **Python-based microservices and APIs**, enhancing user productivity by 15%.
- Collaborated with stakeholders to define technical requirements, prioritize feature roadmaps, and mitigate delivery risks, ensuring the platform's development aligned with user needs and creative workflows.

Software Developer | Wisconsin Center for Education Research, Madison, WI

February 2024 - June 2025

- Designed and deployed **data integration and reporting pipelines** using **C#**, **SQL Server**, and **AWS**, improving real-time access to over **500+ records** and automating ETL workflows.
- Wrote optimized SQL queries and stored procedures to enhance analytical reporting, reducing query execution time by 40%.
- Collaborated with analysts and developers to enhance data integrity, logging, and system performance.

Fullstack Developer | PBS Wisconsin, Madison, WI

September 2024 - January 2025

- Led a team of 5 developers to build and deploy an AR app using React.js, Flask, MySQL, and MindAR, integrating 300+ historical portraits and increasing user engagement by 20% with a seamless 3D experience.
- Coordinated feature requirements with internal stakeholders and translated them into technical specifications, ensuring alignment with organizational goals and maintaining 99.9% uptime across platforms.

Machine Learning Researcher | Informatics Skunkworks, Madison, WI

September 2024 - January 2025

- Built deep learning pipelines for processing 124+ RCC CT images with Python, PyTorch, and TensorFlow, achieving a 5-10% improvement in AUC scores and uncovering intra-patient similarities for predictive accuracy.
- $\bullet \ \ \text{Conducted } \textbf{feature engineering, ETL, and SHAP-based analysis}, \ \text{ensuring } \ \text{data integrity and explainability in } \ \text{ML pipelines}.$
- Automated data extraction and preprocessing workflows using **Python** and **SQL**, integrating heterogeneous medical datasets into a centralized **data warehouse** to streamline downstream model training and analysis.

Software Engineering Intern | TrustedNation, Chicago, IL

May 2023 - August 2023

- Gathered requirements from internal teams to redesign corporate website using Next.js, improving frontend performance by 25% and streamlining user experience for 200+ monthly users.
- Communicated technical trade-offs and migration strategies across teams, reducing latency by 30% while ensuring project goals
 were met.

Student Technology Trainer | Software Training for Students, Madison, WI

November 2022 - January 2024

- Conducted over 100+ interactive workshops and individual sessions on Python, R, HTML, CSS, and JavaScript, training 300+ students and improving technical skill mastery rates by 75% through practical, hands-on learning.
- Achieved an outstanding average instructor rating of 4.80/5 by delivering engaging, high-quality training sessions and creating comprehensive manuals, increasing course completion rates by 30%.

PROJECTS

CodeBuddy | Python, LangChain, LangGraph, Streamlit, Groq (OpenAI-compatible) API, Pydantic

October 2025

- Built an AI coding agent that autonomously generates full-stack applications from natural language prompts, streamlining end-toend development using Python, LangChain, LangGraph, and the open-source Groq API (OpenAI-compatible), achieving 90% task accuracy across 25+ generated projects.
- Developed a **Streamlit web interface and CLI tool** for dynamic, real-time code generation with secure file orchestration and Pydantic-based workflows, reducing build time to **under 45 seconds per project** and improving overall efficiency by **3**×.

${\bf SpeakStudy} \ | \ {\bf Headstarter} \ {\bf AI} \ {\bf Hackathon} \ {\bf Finalist} \ | \ {\it Node.js}, \ {\it Express}, \ {\it LLM}, \ {\it APIs}$

August 2024

- Developed an AI-powered website with Node.js/Express, integrating Gemini Pro 1.5 (LLM) and IBM Watson APIs, handling 1000 interactions/month.
- Enhanced learning accessibility by creating an **LLM-based interactive tool**, improving user engagement by **40**% and increasing retention by **30**%, fostering deeper learning outcomes.

CERTIFICATIONS

- AWS Certified Cloud Practitioner, AWS
- AWS Certified Solutions Architect, AWS

• Machine Learning Specialization by DeepLearning.AI,