Nick Wall

walln@hey.com | https://walln.dev

Experience

IBM   **May 2022 - August 2022**
Software Development Intern   Dallas, TX

- Worked with research teams to develop solutions using custom state-of-the-art AI models for customers with use cases in knowledge extraction and natural language processing.
- Developed knowledge graph visualization and search software to enable faster iteration of knowledge extraction tools.
- Trained and optimized custom AI models for coreference resolution, named entity recognition, and relationship extraction.
- Created and curated datasets to improve AI model performance through detailed annotations and evaluation.

IBM   **May 2021 - January 2022**
Application Development Intern   Dallas, TX

- Developed event-driven microservice applications with Domain-Driven-Design patterns.
- Deployed and maintained containerized applications on Kubernetes clusters.
- Developed conversational AI applications to streamline workflows.
- Trained, optimized, and deployed. Speech-to-Text models to handle low-quality phone calls with performance comparable to the state-of-the-art.
- Guided a team of 10 less technical users and teammates in applying AI for Natural Language Processing through dataset construction and developing models.
- Built a real-time dashboard to monitor conversational AI applications, reducing monitoring latency by a factor of 10.
- Created linear optimization models for client applications.

Award Solutions   **June 2018 - August 2022**
Software Intern   Plano, TX

- Provided BI analytics solutions for leadership by developing software
- Developed scripts to expedite business workflows by removing more than 50 manual tasks

Education

Southern Methodist University   **August 2019 - December 2022**
Computer Science   Bachelor of Arts

Artificial Intelligence and Machine Learning Specialization

Southern Methodist University   **January 2023 - December 2023**
Computer Science   Master of Science

Artificial Intelligence and Machine Learning Specialization

Coursework

Relevant University Coursework

Natural Language Processing, Machine Learning and Neural Networks, Data Structures, Algorithms, Artificial Intelligence, Machine Learning in Python, Statistical Methods, Mobile Applications for Sensing and Learning, Algorithm Engineering, Data Mining, Cloud Computing

Skills

Machine Learning	Backend Development	Frontend Development	Miscellaneous	Soft Skills
Model training & Data curation	Kubernetes/OpenShift and Serverless	Comfortable building user interfaces	Software Engineering experience	Driven to help team and customers succeed
PyTorch, JAX, Web Scraping, Ray, NLP	Rust, Typescript, SQL, Python, Distributed Systems	React (Next.js/Astro), SwiftUI, Gradio, CSS	Git, Cloud Computing (AWS), Design Patterns	Team Player, Adaptable, Open-Minded

Awards

SMU Distinguished Scholar   **Lyle Discovery Scholar**
Southern Methodist University   Southern Methodist University

All-university scholarship awarded for achievement.   Scholarship awarded for achievement to engineering students.