

Nick Wall

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EDUCATION

Southern Methodist University	Bachelor of Arts, Computer Science	December 2022
	- Artificial Intelligence and Machine Learning Specialization	
	Master of Science, Computer Science	Present
	- Artificial Intelligence and Machine Learning Specialization	
Coursework:	Natural Language Processing, Machine Learning and Neural Networks, Data Structures, Algorithms, Artificial Intelligence, Machine Learning in Python, Statistical Methods	

EXPERIENCE

IBM

Software Development Intern; Dallas, TX May 2022 – August 2022

- 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 statistical insights

Application Developer Intern; Dallas, TX May 2021 – January 2022

- Developed event-driven microservice applications with Domain-Driven-Design patterns for financial services.
- Created intelligent applications with conversational AI to enhance customer workflows.
- Trained, optimized, and deployed. ASR AI models to handle low-quality phone calls in several languages. The developed models had performance comparable to the state-of-the-art.
- Deployed and maintained containerized applications on Kubernetes clusters.
- Guided a team of 10 less technical users and teammates in applying AI for Natural Language Processing use-cases through hands-on dataset construction, education on the theory of AI, and developing toy models.
- Built a real-time dashboard to manage and monitor conversational AI applications reducing monitoring latency by a factor of 10.
- Utilized IBM CPLEX to create linear optimization models for client applications.

Award Solutions – Software Intern; Plano, TX June 2018 – August 2018

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

LEADERSHIP AND INVOLVEMENT

Computer Science Tutor September 2017 – January 2021

Tutored students struggling with AP computer science and related classwork in the Frisco-Plano Area

- Instructed students to improve their Data Structures and Algorithm skills in preparation for the AP exam
- Helped inspire passion for programming by guiding students with interesting projects

HONORS

- SMU Distinguished Scholar
- SMU Discovery Scholar
- Advanced Placement Scholar

ADDITIONAL INFORMATION

Skills: Python, PyTorch, SQL, Typescript, Golang, C++, Machine Learning, Deep Learning, Data Science, Git, GCP/AWS

Work Eligibility: Eligible to work in the U.S. with no restrictions