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## Education

**Georgia Institute of Technology**  
*Masters of Science, Computer Science*

Atlanta, GA  
*Expected May 2027*

**University of Texas at Dallas**  
*Bachelor of Science, Computer Science*

Richardson, TX  
*Expected May 2025*

## Experience

**Tomorrow's Leaders Today** | *Next.js, Node.js, Tailwind CSS, SQLite, OAuth 2.0, Figma, Prisma* Frisco, TX  
*Software Developer* Jan 2025 - Present

- Constructing a **full-stack**, low-maintenance Grant / Funding Application Manager using **Next.js**, **Node.js**, **SQLite**, and **Prisma** to automate the aggregation of funding opportunities from all foundation sources through **advanced web scraping techniques**, ensuring **real-time data updates** and streamlined resource discovery.
- Integrating **Generative AI** with **Transformers.js** to auto-generate tailored **LOI verbiage** and grant application responses, while designing an intuitive **user interface** using **TailWind CSS**, **Headless UI**, and **Figma** to deliver a seamless **user experience**.

**University of Texas at Dallas** | *Python, Scikit-Learn, Pandas, NumPy, Beautiful Soup* Richardson, TX  
*Undergraduate Research Intern* May - Aug 2024

- Developed and deployed a robust **web scraper** using **Python** and **Beautiful Soup** that efficiently processed **HTML** code from over **500 websites**, generating a structured dataset crucial for training an **Artificial Neural Network** to enhance translation accuracy for underrepresented dialects with at least **100,000 official users**.
- Spearheaded the "Hafez Effort" **research** initiative by defining eligibility criteria for dialect inclusion, coordinating with faculty on project strategy, and supporting the overarching mission to deliver free, **AI-driven translations** for underrepresented communities.

## Projects

**Course Recommendation Chatbot** | *Python, React.js, Scikit-Learn, FastAPI, Pandas, NetworkX, Pydantic, Uvicorn*

- Created a **React.js web-based chatbot** for educational course recommendations using a **Python** backend, integrating **NLP techniques** & **CORS** configurations to process user inquiries with a **95% accuracy** in response relevance.
- Implemented a **dynamic course recommendation algorithm** using **topological sorting** in **NetworkX** & custom filtering logic to achieve **30% reduction** in redundant course suggestions by improving exclusion of completed courses.

**Fintasy** | *Vue.js, Python, Vite.js, PostgreSQL, Docker, FastAPI, Alpaca, Nginx, Pydantic, Uvicorn*

- Led the design and implementation of a **full-stack paper trading simulation website** with **Vue.js**, achieving a **98% accuracy** in **real-world market data** through virtual tournaments, boosting user engagement by **25%**.
- Engineered a robust **Python backend** coupled with a **PostgreSQL database** to manage stock and user information, enhancing **data retrieval efficiency** by **30%** through optimized **caching** strategies.

## Leadership

**ACM UTD** | *Co-Director* Feb 2022 - Present

- Led a structured **mentorship program** for over **75 mentees**, offering one-on-one resume reviews, career advice, and personalized growth plans, resulting in a **70% improvement** in mentees resumes, and provided targeted resources on key CS career paths - such as **Software Engineering**, **Cybersecurity**, **Data Analysis**, and **Machine Learning** - to empower participants with practical industry insights..
- Fostered partnerships with industry leads (e.g., CBRE) and university professors to coordinate hands-on workshops, seminars, and networking socials across various IT disciplines, and bolstered ACM UTD's mission of delivering cutting-edge professional development opportunities for aspiring tech professionals.

## Technical Skills

**Languages:** Java, Python, JavaScript, HTML, CSS, SQL, C++, C#

**Frameworks:** NumPy, React.js, Next.js, Scikit-Learn, PyTorch, Vue.js, Vite.js, Matplot-Lib, Tensorflow

**Technologies:** Pandas, Git, Git Bash, GitHub, Docker, Docker Containers, PIL, AWS, PostGreSQL, Unix