Caleb Kim Carrollton, TX | (703)-303-5643

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Education

University of Texas at Dallas

Bachelor of Science, Computer Science

Richardson, TX Expected May 2025

Experience

University of Texas at Dallas | Python, Scikit-Learn, Pandas, NumPy, Beautiful Soup

Richardson, TX May - Aug 2024

Undergraduate Research Intern

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.

Association of Computing Machinery | PvTorch, Tensorflow, PIL, BERT, ResNet-18, Pandas Backend-Developer

Richardson, TX Feb - May 2024

- Led the creation of a multi-model Artificial Neural Network for persuasive technique detection, achieving an accuracy of 89.2% and precision of 87.9%, and developed a ResNet-18 Convolutional Neural Network for image classification.
- Collaborated on the design of a Transformer-based BERT Sentiment Analysis model, enabling accurate classification of persuasive techniques in digital text.

Projects

Wrappers Chatbot | Python, React.js, Scikit-Learn, FastAPI, Pandas, NetworkX, Pydantic, Uvicorn

- Created a React. is 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, PostgreSOL, Docker, FastAPI, Alpaca, Nginx, Pydantic, Uvicorn

- Led the design and implementation of a full-stack paper trading simulation website, achieving a 98% accuracy in real-world market data to advance the knowledge of those interested in real-world stock trading.
- Utilized Vue.is to develop a feature-rich web application, enabling user interactions through friend lists and virtual tournaments, which saw a 25% increase in daily active users.
- Developed a robust Python backend and PostgreSQL database for stock information and user information enhancing data retrieval efficiency by 30% and reducing server response times by 20%.

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 resumtes, 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.is, Next.is, Scikit-Learn, PyTorch, Vue.is, Vite.is, Matplot-Lib, Tensorflow Technologies: Pandas, Git, Git Bash, GitHub, Docker, Docker Containers, PIL, AWS, PostGreSQL, Unix

Certifications: Azure AI Fundamentals, Azure AI Engineer Associate, AWS Cloud Practitioner