

TUE DANG (MICHAEL) NGUYEN

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EDUCATION

Texas Christian University
Bachelor's, Computer Science

August 2021 - May 2025
GPA: 3.88

PROFESSIONAL EXPERIENCE

Infolob Global

Data Engineer Intern

Irving, TX, USA

May 2024 - Present

- Learned Oracle SQL, database structures, Exadata, and Oracle Cloud. Set up and managed cloud databases, performed database migrations, and developed applications using Oracle APEX.
- Developed a CRUD application for cloud database file management, integrated D3.js with Oracle APEX for data visualization, and presented the project to client, incorporating feedback for improvements.
- Integrated Large Language Models (LLM) into Oracle Database to enhance capabilities, enabling advanced vector search functionalities for efficient and accurate retrieval of semantic information.
- Worked directly under the CTO, explored database environments, and collaborated effectively with interns and mentors, contributing to team success through strong communication and teamwork.

Sendo Technology Joint Stock Company

Software Engineer Intern

Ho Chi Minh City, Vietnam

June 2023 - August 2023

- Spearheaded the processing of raw data from over 10,000 users, utilizing Pandas and Python, to extract meaningful insights and contribute to data-driven decision-making processes.
- Assisted company employees in adopting and leveraging the 'Great Expectations' framework for comprehensive data analysis.
- Developed a backend microservice using Golang, enhancing the company's infrastructure by creating a solution for drawing user thumbnails.

PROJECTS & OUTSIDE EXPERIENCE

Hogwarts Artifacts API - [Link to project](#)

February 2024 - May 2024

- Developed a RESTful API using Spring Boot to manage wizards, artifacts, and user data, implementing complete CRUD operations within the Controller and Service layers.
- Developed unit tests for services and controllers with Mockito and Spring's MockBean to ensure robust functionality.
- Integrated Spring Security for user authentication and role-based authorization, and utilized Spring's RestTemplate to incorporate the OpenAI GPT-4 API for real-time API functionality summarizations.
- Deployed the application on Azure Cloud, including database setup and connection, and established staging and deployment environments to streamline the deployment process.

SuperFrog Scheduler - [Link to project](#)

March 2024 - May 2024

- Co-developed the SuperFrog Scheduler as part of a team, utilizing Git for effective version control and collaboration, ensuring seamless integration and consistency across project phases.
- Engineered the backend of the scheduling system using Spring Boot, facilitating robust and scalable server-side logic to manage complex user interactions and data processing requirements.
- Created a responsive and intuitive user interface using Vue.js and Vite, enhancing user engagement and operational efficiency for managing mascot appearances at Texas Christian University.

Photogate - [Link to project](#)

July 2023 - August 2023

- Developed a microservice as part of a company initiative, designed to dynamically generate thumbnails for product images when users share their corresponding links.
- Collaborated with teams to understand and meet project requirements in line with business objectives.
- Employed practices in software development, including code modularity, error handling, and documentation.

SKILLS

Languages: HTML/CSS, Java, Python, JavaScript, SQL, Linux/Unix, Go Lang

Framework Libraries: Vue.js, Java Spring, Express.js, Pandas

Technologies: Microsoft Azure, Oracle Cloud Infrastructure, Docker, Git, Oracle Apex