

# DANG "MICHAEL" NGUYEN

+1 (469) 793-9337 | dang.nguyen@tcu.edu | Fort Worth, TX, USA | LinkedIn | GitHub | Portfolio

## EDUCATION

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**Texas Christian University**  
*Bachelor's, Computer Science*

**August 2021 - December 2025**  
*GPA: 3.88*

## PROFESSIONAL EXPERIENCE

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### **Infolob Global**

*Data Engineer Intern*

**Irving, TX, USA**

*May 2024 - August 2024*

- » 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.

## PERSONAL PROJECTS

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### **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

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**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