

THANH NGUYEN (WILLIAMS) DO

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EDUCATION

Texas Christian University

Expected graduation: **May 2025**

Bachelor of Computer Science, Minor: Mathematics

- GPA: **3.6** / 4.0
- Relevant Coursework: Web Technologies, Computer Networks, Database System Management, Analysis of Algorithms, Object-Oriented Programming Data Structures, Unix/ Linux System Administration, Techniques in Programming.

TCU Dean's Honor List

June 2022

- Honor outstanding students in Spring Semester 2022.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Typescript, Python, C++.

Front-end: React.js, Angular.js, Vue.js, MaterialUI, ElementUI, HTML, CSS, Bootstrap.

Back-end: RESTful API, Spring, SpringBoot, Node.js, JSON, MySQL, H2 Database Engine.

EXPERIENCE

Software Engineer Intern

June 2023 - August 2023

FPT Software Da Nang, Vietnam

Remote

- Influenced a team of 3 colleagues, using **Agile methodologies** to plan, develop, and test the application.
- Developed interactive and responsive CRM website in providing innovative solutions for managing **100.000+ houses** renting and apartment industry, using reusable **Angular.js** components for web-based applications, based on design specifications provided in **Figma**.
- Delivered features including managing email/text, setting appointments, and tracking messages, calls, and emails by harnessing existing APIs of **Django** and **ASP.Net**.

TCU Computer Science Teacher Assistant

August 2023 - Present

- Assist **over 50 students** with lab projects in Computer Science courses: Data Structures, Techniques in Programming, Python for Data Analytics, and Introduction to Programming.
- Improve students' programming proficiency and exam performance by 35% through tailored teaching methods customized for each student's learning style and skill level.
- Host weekly 4-hour Computer Science Help Desk session.

PROJECTS

Sudoku Game | bit.ly/3QUqO5M

July 2023 - August 2023

- Designed a responsive website, using the **Angular framework** and **Material UI**, combined with features such as **NgRx** and **RxJS**, resulting in a **30%** faster loading time, compared to normal loading.
- Improved the performance of solving the Sudoku maze by **80%**, by using the **Backtracking algorithm**, compared to the common method. Implemented the same algorithm to generate unique-solution and non-repeated sudoku quizzes for players.

Superfrog Scheduler

April 2023 - May 2023

Front-end: <https://bit.ly/3O4jKIP> | Back-end: <https://bit.ly/3lbMkxX>

- Increased website traffic by **20%** by designing a responsive **Vue.js-based** front-end for TCU Recreational Center's customer-facing **scheduling system**, for booking mascot appearances.
- Utilized **Element UI** for routing and **HTML/CSS/JS components** in single-page applications to optimize the user experience across devices.
- Collaborated with 6 peers using **Agile methodologies** to build a metrics-tracking database.

Hogwarts Artifact Online | <https://bit.ly/3ODNCWA>

March 2023

- Developed a fully-fledged **RESTful API** server to manage wizard object entity and artifact object entity using **SpringBoot**, **Spring MVC**, **Spring Data JPA**, and **H2 database**.
- Enhanced system security by **25%** by implementing role-based authentication and authorization using **Spring Security**, **OAuth2**, and **JSON Web Tokens (JWT)** for administrative users and wizard entity users.