

# 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** / 4.00.
- Relevant Coursework: Web Technologies, Computer Networks, Data Structures, Unix/ Linux System Administration, Programming Language Concepts, 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, PHP, C++.

**Front-end:** 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 in 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 in **100+ 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**.

## PROJECTS

### Sudoku Game | [bit.ly/3QUqO5M](https://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 **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 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 **20%** by designing a responsive **Vue.js-based** front-end for TCU Recreational Center's customer-facing **scheduling system**, allowing bookings of mascot appearances.
- Utilized **Element UI** for routing and **HTML/CSS/JScomponents** in single page application 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 **25%** by implementing role-based authentication and authorization using **Spring Security**, **OAuth2**, and **JSON Web Tokens (JWT)** for administrative users and wizard entity users.

## ACTIVITIES

### TCU Vietnamese Student Association (VSA)

Vice President of Logistics / AVN Head of Logistic

**April 2022 - May 2023**

- Managed a team of 25 members to prepare tools, and set up the stage for events of VSA.
- With excellent stage performances and good preparation, **AVN 2022: Chiasma events** attracted about 300 attendees and received **TCU's Outstanding event award in 2022**.