

THANH NGUYEN (DRAKE) 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, Computer Organization, Programming Language Concept.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Typescript, Python, SQL.

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

Back-end: MongoDB, GraphQL, Apollo Client, Django, RESTful API, Firebase, SpringBoot, Express.js, Git, Github, Node.js, MySQL, H2 Database Engine, Docker, Kubernetes.

EXPERIENCE

Software Engineer Intern

June 2023 - August 2023

FPT Software

Da Nang, Vietnam (Remote)

- Developed interactive and responsive CRM website to provide innovative solutions for managing **100.000+ houses** renting and apartment industry, using reusable **Angular.js** components for web-based applications, based on the design specifications provided in **Figma**.
- Implementing properties of **RxJS** and **NgRx** to reduce **30%** of the rendering time of the housing lists and components.
- Delivered features including managing email/text, setting appointments, and tracking messages, calls, and emails by harnessing existing APIs of **Django** and **Python**.
- **Techstack:** **TypeScript, Angular.js, RxJS, NgRx, Bootstrap 5, Django, Node.js.**

Undergraduate Computer Science Teacher Assistant

August 2023 - Present

Texas Christian University

Fort Worth, TX

- Assist professors in guiding, grading, and giving feedback to students' lab projects in Computer Science courses: Data Structures, Techniques in Programming, and Introduction to Programming.
- Improve **over 50 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

BlogApp | [Github Link](#)

December 2023 - January 2024

- Architected a fully-functioned responsive design user interface allowing users to save memories and articles using **React.js**, combined with **JavaScript** and **Bootstrap 5**.
- Developed and implemented a highly efficient back-end service using **Node.js** and **Express.js**, enabling seamless **CRUD functionality** for retrieving articles from a **MongoDB database** hosted on **MongoDB Atlas**, resulting in improved data management and retrieval processes.
- Managed users' account actions such as signing in, signing out, and states using **Firebase Authentication** to secure the application.
- **Techstack:** **JavaScript, MERN Stacks, Bootstrap 5, RestAPI, Firebase.**

Sudoku Game | [Github Link](#)

July 2023 - August 2023

- Implemented a cutting-edge gaming website with **Angular.js**, **TypeScript**, **Material UI**, and **SweetAlert** to deliver a seamless user experience; resulting in a **30%** reduction in bounce rate.
- Improved Web UI performance by applying **NgRx** and **RxJS**, resulting in a **30%** faster loading time.
- Improved the performance of solving the Sudoku maze by **80%**, using the **Backtracking algorithm**, compared to the usual method. Implemented the same algorithm to generate **unique-solution** and **non-repeated** sudoku quizzes for players.
- **Techstack:** **TypeScript, Angular.js, NgRx, RxJS, SweetAlert 4, Bootstrap 5, SCSS, MaterialUI.**

Superfrog Scheduler | Front-end: [Github Link](#) | Back-end: [Github Link](#)

April 2023 - May 2023

- Increased website traffic by **20%** by designing a responsive **Vue.js-based** interface 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.
- **Techstack:** **JavaScript, Vue.js, HTML, CSS, Git, Github.**