THANH NGUYEN (WILLIAMS) DO

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EDUCATION

Texas Christian University   *Expected graduation: May 2025*
Bachelor of Computer Science, Minor: Mathematics
- GPA: **3.5** / 4.0
- Relevant Coursework: Web Technologies, Computer Networks, Database System Management, Analysis of Algorithms, Object-Oriented Programming, Data Structures, Unix/Linux System Administration.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Typescript, Python.
Front-end: React.js, Angular.js, Vue.js, MaterialUI, ElementUI, HTML, CSS, Bootstrap 5.
Back-end: MongoDB, GraphQL, Apollo Client, RESTful API, SpringBoot, Express.js, Node.js, MySQL, Firebase, H2 Database Engine.

EXPERIENCE

Software Engineer Intern   *June 2023 - August 2023*
FPT Software   *Da Nang, Vietnam (Remote)*
- Influenced a team of 3 colleagues of the Front-End team, 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 **Python**.

Undergraduate Computer Science Teacher Assistant   *August 2023 - Present*
Texas Christian University   *Fort Worth, TX*
- 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 **40%** through **tailored teaching methods** customized for each student's learning style and skill level.

PROJECTS

BlogApp | https://bit.ly/47RrDkU   *Dec 2023 - Present*
- Architectured 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.

Sudoku Game| bit.ly/3QUqO5M   *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 using Angular features, such as **NgRx** and **RxJS**, resulting in a **30%** faster loading time.
- Improved the performance of solving the Sudoku maze by **80%**, by using the **Backtracking algorithm**, compared to the usual method. Implemented the same algorithm to generate **unique-solution** and **non-repeated** sudoku quizzes for players.

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.