Toan Pham

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EDUCATION

Arizona State University   *Aug 2022 - Present*

Bachelor's in Computer Science

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Operating Systems, Computer Architecture, Theoretical Computer Science, Discrete Math, Linear Algebra.

WORK EXPERIENCE

Teaching Assistant | Arizona State University   *Aug 2023 - Present*

- Analyzed weekly reports using Excel to track student help requests, identifying areas where additional support was needed and enhancing access to tutoring resources, leading to improved academic performance.

- Guided 150+ students per semester in C, C++, Java, and Python, providing over 12 hours of weekly assistance for both introductory and advanced courses. Utilized interactive learning techniques to strengthen students' coding, problem-solving skills, and overall comprehension of course material.

Community Assistant | Arizona State University   *Aug 2023 - Present*

- Provided personalized support to over 100 residents daily, fostering community engagement and ensuring exceptional living experiences.

- Spearheaded communication initiatives, resolving resident concerns and upholding Arizona State University Housing standards for a harmonious community environment.

PROJECTS

Discord Music Bot   *May 2024 - July 2024*

- Built a feature-rich music bot using JavaScript, Discord.js, ffmpeg, youtube-dl, and discord-player, enabling seamless music streaming for over 50 active users with queue management and real-time controls.
- Optimized performance by integrating advanced audio processing, reducing latency by 20% and ensuring high-quality playback across various Discord servers

Discord Clone   *June 2024 - Present*

- Developed a real-time messaging platform using Next.js 13, React, and Socket.io, supporting seamless communication for over 100+ concurrent users with live updates and notifications.
- Integrated Prisma and MySQL for efficient data handling, achieving a 30% improvement in database query performance and implementing Tailwind for responsive, modern UI design across devices.

Personal Portfolio Website   *Oct 2024 - Present*

- Designed and developed a fully responsive portfolio website using React, Vite, and Tailwind CSS, showcasing projects, skills, and contact information with a modern, dynamic user interface.
- Implemented optimized loading speeds and seamless navigation, achieving a 25% performance improvement through Vite's fast build tool and Tailwind's utility-first CSS framework.

TECHNICAL SKILLS

Programming Languages: JavaScript, Java, Python, C, C++, SQL (MySQL), HTML, CSS.
Frameworks: React, Next.js, Node.js, Discord.js, Socket.io, Prisma, Tailwind CSS.
Developer Tools: Git, GitHub, Docker, Vite, Jenkins, Visual Studio Code, JetBrains IDEs (IntelliJ, WebStorm)
Cloud Platform: AWS, Firebase, Google Cloud Platform.