

Toan Pham

kpham34@asu.edu | 623-254-8962 | Tempe, AZ
<https://www.linkedin.com/in/toanphamcs/> | <https://github.com/ChefToan>

EDUCATION

Arizona State University

Aug 2022 - Present

Bachelor's in Computer Science

Coursework: Data Structures, Object-Oriented Programming, Linear Algebra, Discrete Math, CodePath

WORK EXPERIENCE

Software Engineering Intern | FPT Software Ho Chi Minh

May 2023 - Aug 2023

- Designed and developed a scalable microservices architecture using Java Spring Boot, achieving a 30% increase in system throughput and ensuring robust performance under high user loads.
- Collaborated with database handling team to streamline database operations, resulting in a 25% reduction in query response time and enhancing overall system efficiency.

Research Intern | Arizona State University

Aug 2023 - May 2024

- 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.

Teaching Assistant | Arizona State University

Aug 2023 - May 2024

- Conducted research on advanced algorithms in data structures and their optimization, utilizing C++ and Python for implementation and testing, contributing to a publication in a peer-reviewed journal.
- Developed and tested machine learning models using Python libraries such as TensorFlow and scikit-learn, enhancing predictive accuracy by 15% through data preprocessing and feature engineering.
- Collaborated with a multidisciplinary team to design and implement a web-based application using React.js and Node.js, streamlining the visualization and analysis of research data.

PROJECTS

Discord Music Bot

Jan 2024 - Present

- Developed a feature-rich Discord bot in JavaScript, integrating database functionalities to efficiently handle data for over 50 users, ensuring optimal performance and responsiveness.
- Implemented robust database management using technologies like MySQL, MongoDB, or SQLite, alongside JavaScript frameworks like Discord.js, to deliver seamless user experiences and intuitive UI/UX design for enhanced engagement.

ToDoList App

May 2024 - Present

- Crafted an intuitive ToDoList application leveraging React.js and a local database, providing a seamless user experience for task management among 5+ users, ensuring data integrity and performance.
- Employed intermediate level of React.js for state management and UI rendering, coupled with efficient database integration using technologies like IndexedDB or LocalStorage, to deliver a visually appealing and responsive application with robust functionality.

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, SQL (MySQL, SQLite), HTML5, CSS3, JavaScript.

Frameworks: React, React Native, Node.js, Express.js, TensorFlow, PyTorch.

Developer Tools: Git, GitHub, Docker, Jenkins, Visual Studio, VSCode, IntelliJ IDEA, Eclipse.

Cloud Platform: AWS, Firebase, Google Cloud Platform.