TIEN DAT DANG

480-743-3265 ⋄ tdang17@asu.edu ⋄ linkedin.com/in/tiendang288 ⋄ github.com/dangtiendat288

EDUCATION

Arizona State University, Tempe, AZ — Expected May 2025
Bachelor of Science in Computer Science (Software Engineering), 4.00 GPA, NAmU Scholarship, Dean's list

Relevant Courses: Object-Oriented Programming, Data Structures & Algorithms **(C/C++)**, Operating Systems, Compiler, Distributed Software Development, Software Analysis and Design, Software Testing, Information Assurance, Machine Learning

TECHNICAL SKILLS

Programming Languages:	Java, C/C++, C#, Javascript, Typescript, PHP, Python, Kotlin
Front-End & Mobile:	HTML, CSS, React, React Native, Android, JavaFX
Back-End & Methodologies:	Cloud computing, MySQL, NodeJS, MongoDB, Postman, Git, GitHub, Agile, Scrum

PROFESSIONAL EXPERIENCE

Ira A. Fulton Schools of Engineering at Arizona State University — January 2024 - Present
Undergraduate Teaching Assistant — *Tempe, AZ*

· Assisted **300+** students per class in understanding software lifecycle models, project management, team development, software architectures, quality assurance practices, and industry standards, resulting in improved student performance and comprehension.
· Tutored **30+ students** per recitation to grasp concepts and methods in cybersecurity, facilitating use and understanding of **Python, Scapy, HTTP protocols, Linux, x86 Assembly, Sockets, Cryptography, Encryption, Hashing, Packet Interception, Flask, Web Servers, and SQL Injection**, leading to enhanced student engagement and practical skills.

Mobile World Group — July 2021 - December 2021
Software Developer Intern — *Ho Chi Minh City, Vietnam*

· Upgraded mobile POS app to a newer React Native version, reducing loading time by **20%** and improving user experience.
· Integrated native GPS tracking module into React Native app, reducing location inaccuracies by **40%** and enhancing reliability.
· Developed an employee management app with Redux, Redux-thunk, Reanimated 2, and Gesture, gaining hands-on experience.

PROJECTS

Memorylane, Hackathon Project at sunhacks.io — September 2024

· Demoed an AI-powered therapy platform for dementia patients with a **Next.js, React, Tailwind CSS, and TypeScript** frontend.
· Combined **Node.js** and **MongoDB Atlas** for backend and integrated **AWS S3** and **Google Cloud Vision** for image recognition.
· Automated infrastructure with **Terraform** and **AWS Lambda** for scalable media storage, tagging, and retrieval.

Custom language compiler, Class Project — May 2024

· Finished a **C++** compiler implemented lexical analysis, parsing, and code generation phases of compilation for a custom language.
· Supported diverse control structures (if-else, loops, and switch statements), showcasing advanced language processing capabilities.

ASU class availabilty tracker, Personal Project — May 2024

· Composed a **Python** web scraper using **Selenium** and **Twilio API** to monitor ASU class availability and send user notifications.
· Hosted on a Raspberry Pi server, eliminated the need for manual class registration checks, streamlining the enrollment process.

Hotel booking system, Class Project — February 2024

· Generated event-driven architecture in **C#** and **.NET** for hotel-agency interaction, cutting response time by **30%** with multithread.

Effort Logger, Class Project, Team Leader — November 2023

· Produced a **Java** application with a **JavaFX** GUI to manage employee efforts and track defects during Agile development.
· Followed **MVC** architecture and integrated a **MySQL** database using **XAMPP** for secure and reliable data management.

Kotlin music player, Personal Project — January 2022

· Conducted a **Kotlin Android** app for streaming songs from **Firebase**, using **Dagger-Hilt** for dependency injection.
· Integrated **ExoPlayer** with background playback and a foreground notification and **Kotlin Coroutines** for efficient networking.

Meal Helper, Personal Project — January 2021

· Created a **Java Android** app for meal planning, generating grocery check lists and offering dish details, and cooking tutorials.
· Utilized **Retrofit** and **RxJava** for API requests from https://www.themealdb.com/ and applied **MVVM** architecture.
· Designed the user interface using **XML** and **Material Design** to ensure a responsive and intuitive user experience.