

Anh Nguyen

Availability: 16/2 - 20/12 | Sydney, Australia | 0435 062 477 | avdn2000@yahoo.com | [LinkedIn](#) | [Github](#) | [Portfolio](#)

EDUCATION

Bachelor of Science (Computer Science) | University of New South Wales | 83.7 WAM

2022 - 2024

EXPERIENCE

Casual Academic | University of New South Wales

Sept 2023 - Present

- Tutored 60+ students per week in COMP2511 Object Oriented Programming and COMP3121 Algorithm Design and Analysis
- Used JUnit, Gradle, and core Java features/frameworks, e.g. OOP, inheritance, collections, exceptions, packages, concurrency, and generics, to teach design principles, design patterns, design/code smells, and refactoring techniques
- Taught problem solving paradigms (Divide and Conquer, Greedy Algorithms, Flow Networks, Dynamic Programming) and Big-O time complexity analysis for creating, justifying and analysing algorithms
- Used Git and Gitlab to distribute assignment specifications edits to 500+ students

Student Experience Subcommittee | UNSW CSE Society

Mar 2022 – Dec 2022

- Used Confluence and Jira to plan events that were catered to the wellbeing of 10,000+ students, e.g. a peer mentoring program with 300+ mentors/mentees, and a month-long wellness program to improve the 5 types of wellbeing
- Ran social events with 100+ attendees each as an MC
- Collaborated within a team of 200+ CSE Society volunteers to produce marketing materials and educational resources

PROJECTS

Portfolio | Javascript, HTML, CSS | React, React Router, React Spring, Tailwind CSS, Vite, Github Actions

[Live Site](#) | [Github](#)

My portfolio, delivered as a single page web application with responsive layouts and interactivity.

- Created reusable React functional components to compose the UI with
- Styled React components with Tailwind CSS, and animated UI interactions with React Spring
- Built the project with Vite in development, and deployed the site via a CI/CD pipeline with Github Actions
- Handled routes with React Router to enable seamless navigation between pages

100 Days of SwiftUI | Swift | SwiftUI, CreateML, CoreML, SwiftData, Core Image, MapKit, Core Data

[Github](#)

A course on building for Apple platforms - particularly iOS 17 - with Swift and SwiftUI, delivered by Hacking with Swift.

- Used SwiftUI to compose the UI of 19 projects, with projects using CreateML, CoreML, Core Image and MapKit
- Added data persistence with SwiftData / Core Data, with asynchronous tasks for obtaining data via networking / device storage
- Scored 96/100 on the final exam, passing the course with distinction

Accounting Service, Anti Fraud System, Web Quiz Engine

[Accounting Service Github](#)

Java, SQL, Groovy

[Anti Fraud System Github](#)

Spring Boot, Spring Data JPA, Spring Security, H2, Jackson, Project Lombok, JUnit, Mockito, Gradle

[Web Quiz Engine Github](#)

Multiple backend services with RESTful APIs, built around Spring's dependency injection.

- Implemented RESTful APIs using Spring Boot, and used Project Lombok to reduce boilerplate code in the codebases
- Added data persistence using Spring Data JPA to configure SQL queries to H2 databases
- Implemented authorisation and authentication using Spring Security
- Applied Spring Validation to ensure integrity of data models, and configured Jackson to encode data models as JSON
- Tested using JUnit and Mockito
- Built projects with Gradle, with builds configured in Groovy

KEY TECHNICAL SKILLS

Languages: Swift, Java, SQL, Javascript, HTML, CSS

Frameworks and libraries: SwiftUI, SwiftData, Spring Boot, Spring Data JPA, Spring Security, JUnit, Mockito, React, Tailwind CSS

Development tools: IntelliJ IDEA, Xcode, Webstorm, Git, Github, Gradle, Confluence, Figma

VOLUNTEERING AND AWARDS

UNSW ICPC Event Coordinator 2023

Student Experience Subcommittee CSESoc UNSW 2022

St. Leo's College Academic Award 2018