

NAM NGUYEN

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Technical Skills

Programming Languages: Java, HTML, CSS, JavaScript, SQL, C, C++, Python

Libraries/Frameworks & Databases: Spring, React.js, PostgreSQL, MongoDB, JavaFX, JUnit

Developer Tools: Visual Studio Code, Xcode, IntelliJ, GitHub, Docker, Bootstrap Studio

Personal Projects

Pet Adoption Web Application | *React.js, CSS, Java, Gradle, PostgreSQL, Docker*

May 2024 - Present

- Developed a user-centric microservices web application connecting communities with nearby animal shelters, enhancing pet adoption rates by 10-15%.
- Designed and implemented the client-side of the web application in React.js, creating a responsive, swipe-based UI with mechanics similar to the popular app Tinder, significantly enhancing user engagement by an estimated 30%.
- Integrated RESTful APIs and secure user authentication with Google and Facebook logins.
- Leveraged Docker to containerize and deploy applications, which simplified workflows and made sure everything works consistently across different environments.

Tokimon Card Collector System | *CSS, Java, JavaFX, JUnit, Spring*

July 2024

- Developed a Tokimon card collector system using Spring Boot and JavaFX, enabling users to perform CRUD operations on Tokimon cards.
- Implemented RESTful APIs for data management, allowing users to create, update, and maintain their collection efficiently.
- Developed comprehensive unit and integration tests using JUnit 5, ensuring 85% test coverage and 97% reliability of API endpoints and Spring Boot's testing framework, ensuring proper functionality and desired result from each API endpoints.

Realtor Web Application | *HTML, CSS, JavaScript, Java, Spring, PostgreSQL, Docker*

January - April 2024

- Developed a monolithic web application with Spring Boot, HTML, CSS, and JavaScript, enhancing a realtor's online presence and client connectivity.
- Achieved a 95% increase in client satisfaction by incorporating in-depth research on current aesthetic trends in the real estate industry.
- Managed and optimized PostgreSQL database systems to ensure data integrity and efficient CRUD operations.
- Boosted user engagement by 15-25% through the integration of Google Maps API for property visualization and automated email notifications via Mailgun API, resulting in higher user interaction and conversion rates.

Simple Talk | *C, POSIX Threads, Sockets*

February 2024

- Developed *Simple Talk*, a multi-threaded chat application using C, enabling real-time communication between machines via UDP/UNIX protocols.
- Implemented concurrent message sending and receiving through POSIX Threads, optimizing performance with a List ADT for $O(1)$ access time.
- Designed a terminal-based interface for seamless communication, allowing users to specify custom port numbers and remote addresses.

Education

Simon Fraser University

Bachelor of Science in Computing Science

January 2023 - Present

Burnaby, BC