

Trang Nguyen

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TECHNICAL SKILLS

- Programming Languages: C#, JavaScript, Java, Python, SQL
- Web Development: HTML, CSS, JavaScript, React, Node.js
- Database Management: MySQL, Oracle SQL Developer
- Development Tools: Git, Visual Studio Code, Visual Studio 2022, IntelliJ IDEA
- Software Development Methodologies: Agile, Scrum

PROJECTS

Budget Boss (Capstone Project)

- Designed and developed a financial budgeting mobile application to assist users in tracking income, expenses, and savings.
- Implemented core functionalities such as authentication, budget planning, and expense categorization, improving personal financial management efficiency.
- Followed Agile methodologies (Scrum), software development lifecycle (SDLC), and utilized Git for version control, ensuring efficient collaboration.
- Applied strong problem-solving and debugging skills to enhance app performance.
- Technologies Used: React Native, JavaScript, Python, Flask, SQLite

Room Booking and Event Management System

- Designed and implemented a microservices-based platform, allowing students, staff, and faculty to book rooms for events and meetings.
- Developed RESTful microservices using Spring Boot with database integration using JPA and PostgreSQL/MongoDB.
- Implemented synchronous inter-service communication using REST APIs.
- Containerized services with Docker for independent deployment and scalability.
- Wrote comprehensive integration tests to ensure system reliability and performance.
- Technologies Used: Java, Spring Boot, PostgreSQL, MongoDB, Docker, REST APIs, Gradle

Word Salad

- Designed and developed a fast-paced mobile puzzle game that fetches scrambled words using an API challenging players to unscramble words within a 2-minute timer.
- Built intuitive UI screens ensuring smooth navigation and engaging user experience.
- Implemented a scoring system with dynamic difficulty levels, tracking player performance and increasing word complexity across five difficulty tiers.
- Enabled leaderboard functionality through persistent data storage to save player names and scores.
- Technologies Used: SwiftUI

Learning Path Creator

- Developed a web application allowing users to compile curated learning paths from multiple resources.
- Implemented user authentication, resource voting system, and community-driven content, enhancing the user experience.
- Applied secure coding principles, including PHP password hashing for authentication.
- Followed the Software Development Life Cycle (SDLC) to design, develop, test, and deploy system enhancements.
- Technologies Used: PHP, MySQL, HTML, CSS, JavaScript, Materialize CSS

GUI-Based Travel Reservation System

- Designed a user-friendly system for flight reservations, tracking passenger details and calculating fares.
- Utilized object-oriented programming (OOP) principles for modular and maintainable code.
- Integrated a time zone feature allowing users to view current time across different regions.
- Conducted unit and system integration testing to ensure system reliability.
- Technologies Used: Java, JavaFX

EDUCATION

Computer Programming and Analysis, Advanced Diploma

Sept 2021 – May 2025

George Brown College, GPA: 3.97

Toronto, Canada

Relevant coursework: Full-Stack Development II, Advanced Database Management, Advanced Object-Oriented Programming, Agile Software Development, Mobile Application Development II, Data Structures and Algorithms

PROFESSIONAL WORK EXPERIENCE

Data Entry Operator and Lab Attendant 1

Sept 2020 – Present

Public Health Ontario

Toronto, Canada

- Scanned and organized health records, contributed to efficient management of patient information, and ensured compliance with privacy regulations and data security protocols.
- Unpacked and arranged specimens for transfer to subsequent departments, facilitating seamless progression of samples within laboratory, and expediting their analysis and utilization by other healthcare units and research teams.
- Provided acquisition and technical validation of patient information and laboratory samples and requisitions into the Laboratory Information System (LIS) and Public Health systems (Laboratory Results Management Application).

Assistant Sales and Operations Manager

Feb 2017 – Aug 2019

West Elm

Toronto, Canada

- Maintained retail store with 20+ employees and revenue of \$10M per year.
- Reinforced customer service principles by coaching sales staff of 10+ associates on their success and challenges to improve performance and customer satisfaction.
- Trained and managed a team of 7+ stock associates to comply with policies and procedures.
- Managed daily operations by delegating tasks, managing shift changes, and conducting key holder duties.