Chi Nguyen (she/her)

Software Engineer – Web Development

- (306)-260-0610
- chinsu190103@gmail.com
- LinkedIn
- GitHub

EDUCATION

British Columbia Institute of Technology *September 2021 – December 2023*

Computer System Technology Diploma, Artificial Intelligence Option

- **GPA**: 86% with Distinction
- **Relevant Course:** Internet Software Architecture, Machine Learning, Algorithm, Mobile Development, Web Development, Object Oriented Programming, Procedural Programming, Relational Database

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, Kotlin, C, C++
- **Web Development**: HTML, CSS, Tailwind CSS, JavaScript, TypeScript, Node.js, React.js, Redux, Next.js
- **Database**: MySQL, Firebase
- **Tools**: Git, Visual Studio Code, PyCharm

RELEVANT EXPERIENCE

Front-End Developer Co-op | PHP Insurance Services Inc. *May 2022 – December 2022*

- Collaborated with UI/UX designers and back-end developers to create responsive and visually appealing applications
- Implemented Next.js to build interactive components and seamless routing, enhancing user experience
- Improved website loading time by 45% by optimizing images using Thumbor and lazy loading techniques, and utilizing Redux for efficient data storage and retrieval
- Conducted browser compatibility testing and resolved rendering issue to provide a consistent experience across browsers
- Implemented Google Analytics tracking and SEO best practices to optimize website performance and visibility

PROJECTS

MyChat – Chat Message App | Personal Project *September 2023 – February 2024*

- Implemented WebSocket for real-time message delivery, ensuring instant communication
- Efficiently managed application state, user profiles and chat histories using Redux, resulting in a smooth user experience and a decrease in loading time
- Secure login with Google Authentication and data storage with Firebase, ensuring data persistence and accessibility across devices
- Employed Next.js for a visually appealing, responsive, and interactive user interface that seamlessly adapts to different devices

Insurance Prediction – AI Project | Group Project *October 2023 – December 2023*

- Implemented a two-stage modeling approach involving classification and regression to determine claim eligibility and predict claim amounts
- Conducted extensive data preprocessing and feature engineering to enhance model performance, overcoming challenges related to missing values and categorical variables
- Utilized ensemble techniques such as Random Forests and Gradient Boosting for model selection, optimizing hyperparameters through grid search and random search
- Evaluated model performance using metrics including accuracy, precision, recall and Mean Absolute Error
- Achieved the first place among five competing groups

Sudoku Solver – AI Project | Group Project *February 2023 – April 2023*

- Implemented two solving algorithm – Brute Force for standard puzzles and Constraint Satisfaction Problem (CSP) for more complex puzzles, allowing users to choose the solving strategy
- Utilized Next.js server-side rendering capabilities for optimal performance
- Improved average processing time for a solving a 16x16 758.29s to 40.19s using CSP and Heuristics