

William Hu

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FULL STACK DEVELOPER

At the intersection of healthcare expertise and software engineering ambition, I, as a former registered nurse and public health nurse turned full stack software engineer, offer a unique blend of compassion, analytical prowess, and a fervent dedication to creating impactful digital solutions. With a deep understanding of healthcare systems and patient needs, I bring a human-centered approach to software development, ensuring that the solutions I craft are not only technically robust but also empathetic and user-centric. I am committed to leveraging my diverse background to revolutionize healthcare technology, forging a path towards a healthier and more accessible future for all.

TECHNICAL & INTERPERSONAL SKILLS

Languages: Python, JavaScript, HTML, CSS, SASS, SQL, JSON, Typescript, EJS, DTL

Libraries and Frameworks: React, Express.js, Node, Django, JQuery, Bootstrap, Tailwind, Semantic UI, Bulma, Passport, OAuth, Mongoose

Databases and other: PostgreSQL, MongoDB, RESTful Routing, JSON API

Tools: Epic, EMR, OLIS, CCM, Connecting Ontario, PowerChart, ICON, MIMMS

Interpersonal skills: Active listening, positive attitude, empathy, leadership, collaboration, team building, communication, accountability, mentorship, compassion

Languages Spoken: English, Cantonese, French

TECHNICAL PROJECTS

Wavelength: Electronic Medical Records - [GitHub](#) | [App](#) - MongoDB | Express | Node

A simple but highly functional electronic medical record system that could be implemented at a small urgent care center or emergency room. Our user experience is both provider- and patient-centric, creating a logical organizational structure that will help streamline workflow for providers and facilitate a more integrated care-delivery system for each patient.

- Developed MEN stack application that integrates AI technology to generate patient discharge summaries to provide an innovative digital solution to one of the biggest causes of hospital backlogs—discharge backlogs
- Adopted a user-centric approach when developing UI and UX by leveraging healthcare background and user experience with numerous other electronic medical records, improving features that did not work well
- Built responsive front-end using Embedded JavaScript to dynamically render pages and data that enhance user experience (i.e. vital signs that appear in red when outside of normal limits)

Space Invaders - [GitHub](#) | [App](#) - JavaScript | CSS | HTML

Arcade classic 2D matrix game where you must defend Earth from relentless waves of alien invaders by shooting them down before they reach the planet's surface.

- Coded game logic using JavaScript to deploy in an agile 1 week development sprint
- Adopted a model view controller (MVC) approach to organize code, fostering readability and updatability
- Developed hover and animation key frames using HTML and CSS to render appropriate scenarios for end user

Tic-Tac-Toe - [GitHub](#) | [App](#) - JavaScript | CSS | HTML

Classic two-player strategy game where the objective is to form a line of three of your symbols in a row, either horizontally, vertically, or diagonally on a 3x3 grid.

- Built responsive front-end using JavaScript, CSS, and HTML in 4 days to complete project before deadline according to product specifications and requirements

EXPERIENCE

Toronto Public Health, Public Health Nurse - Shift Lead

Toronto, ON, 02/2021 - 07/2021

- Was a shift lead on the COVID-19 hotline, where I provided support and guidance to a team of 14 through consultations and 1 on 1 check ins
- Stayed up to date with COVID-19 guidelines, processes, and recommendations on municipal, provincial, and federal levels and provides daily update reports to team
- Assessed case and contact's eligibility for Toronto's Voluntary Isolation Centre by performing nursing assessments
- Provided support to various outbreak settings such as schools, workplaces, and long term care homes through outbreak management and planning processes
- Educated public about various COVID-19 vaccines regarding efficacy and eligibility to promote vaccine confidence

Toronto General Hospital, Registered Nurse*Toronto, ON, 08/2020 - 02/2021*

- Applied the nursing process in various inpatient care areas in response to short-term absences and changes in acuity or patient volume
- Continued development of diverse clinical knowledge base by accepting responsibility for care of clients in care areas such as general internal medicine, cardiology, vascular and cardiovascular surgery, neurology, spinal surgery, respirology, thoracic surgery, nephrology, multi-organ transplant, and COVID-19
- Performed in an independent, client-centered, and self-regulated capacity adherent to CNO standards of nursing practice through autonomous engagement in to nursing process, collaboration with members of the interprofessional team, in addition to accountability-driven practice

EDUCATION

General Assembly*Remote, Certificate Expected: 10/2023***Software Engineering Immersive**

Full-stack software engineering 420+ hour program focused on product development fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies.

Conestoga College*Remote, Completed: 04/2021***Basic Cardiac Arrhythmias**

Introduction to basic arrhythmias covering topics such as cardiac physiology, lead placement, identification of sinus rhythms, mechanisms of common arrhythmias, pacemaker rhythms and life-threatening arrhythmias

University of Western Ontario*London, ON, Graduated: 04/2019***Bachelor of Science in Nursing (BScN)**

Graduated with Distinction and on Dean's Honour List.