

HASSAN HASHMI

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Technical Skills

Languages: TypeScript, JavaScript, C++, Python, C#, Kotlin, HTML, CSS, SQL

Technologies/Frameworks: React, MongoDB, Express.js, Node.js, ASP .NET Core, Tailwind, Git, Storybook, Django, MUI

Education

University of Waterloo

Sept 2019 - Apr 2025

Bachelors of Computer Science

- **Courses:** Algorithms (Python), Object-Oriented Programming (C++), Databases (SQL), Software Security (C#), User Interfaces (Kotlin), Application Development (Kotlin), Operating Systems (C)

Experience

Front-End Developer

May 2024 - Aug 2024

JANA Corporation

Aurora, ON

- Implemented the front-end for a multi-million dollar SaaS platform focused on gas pipeline integrity, using **React**, **TypeScript**, **Tailwind CSS**, **Redux Toolkit**, **C#**, **SQL**, and **.NET** impacting over **25 million** households
- Executed **50+** unit and integration tests using **React Testing Library** and **Vitest**, achieving **95%** code coverage
- Converted **10+** legacy React components to modern standards, reducing technical debt by **30%** and improving code maintainability and performance by **15%**

Full-Stack Developer

Sept 2023 - Aug 2024

University of Waterloo Badminton Club

Waterloo, ON

- Engineered a cross-platform [court management app](#) using **Django REST Framework**, **React**, and **TypeScript** improving operating efficiency by **60%**
- Developed custom drag-and-drop functionality with global app state management across **8 courts** and **100+ sessions** using **Redux Toolkit**, **RTK Query**, and **React DnD**, decreasing user errors by **25%**

Full-Stack Developer

May 2023 - Dec 2023

JANA Corporation

Aurora, ON

- Developed an internal profit-sharing application with **ASP.NET Core** and **React**, saving **\$10,000** annually
- Architected a robust database and developed custom **RESTful APIs** using **ASP.NET**, **SQL**, and **Microsoft Server Management Studio**, streamlining financial calculations and efficiently managing data for over **200 employees**
- Optimized web form validation with **React Hook Form** and **Zod** reducing database rollback instances by **75%**

Projects

Nim Game

- Made a two-player, math-based card game with the option to play against another player or the computer, leveraging **MongoDB**, **Express.js**, **React**, and **Node.js**
- Crafted the client interface based on **Material Design** principles, featuring **3 unique screens** and **16 interactive cards** to deliver a seamless and engaging user experience, designed in **Figma**

PokéView

- Built an interactive Pokémon information web app on top of a custom component library using **React**, **TypeScript**, and **Framer Motion**, supporting **650 Pokémon** and **50 components**, including a search bar, drop-down filter, and card-flipping animations
- Implemented a dynamic dark mode with complimentary colours and shiny Pokémon sprites using **CSS** and **JavaScript** improving user engagement by **35%**
- Integrated an interactive tutorial with **Intro.js**, guiding users through key features and reducing learning curve by **40%**

Notetaking Application

- Developed a note-taking desktop app for computer science students using **Java FX**, **Kotlin**, and **SQLite**, including a custom database manager for local storage, and supporting up to **10,000 notes** cloud-synced notes
- Deployed a scalable cloud infrastructure using **Spring Boot** and **Docker**, enabling real-time data synchronization