HASSAN HASHMI

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Education

University of Waterloo
June 2025

Bachelors of Computer Science

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

Experience

Jr. Software Developer
July 2025 - Pres.

i3 Solutions Inc
Mississauga, ON

- Developed end-to-end features in **Next.js, Prisma and PostgreSQL** to cut support issues by **12%**
- Enhanced platform performance for **1M+ users** by building scalable features with **Vue, ASP.NET, and C#**
- Improved application responsiveness by **25%** via rewriting data-intensive operations with optimized **LINQ-to-Entities** queries to minimize database overhead
- Implemented robust **C#** application features using object-oriented design principles, leveraging generics, interfaces, and async/await to create clean, maintainable components that integrated smoothly with the existing codebase

Front-End Developer Intern
May 2024 - Aug 2024

JANA Corporation
Aurora, ON

- Delivered front-end features for a SaaS platform serving **25M+ households** using **React, TypeScript, Tailwind, and Redux**
- Wrote **50+** unit and integration tests using **React Testing Library and Vitest**, achieving **95%** code coverage
- Implemented interactive **D3.js** visualizations, enhancing data comprehension and user engagement by **40%**

Full-Stack Developer Intern
May 2023 - Dec 2023

JANA Corporation
Aurora, ON

- Built an internal profit-sharing platform with **.NET, React, and TypeScript,** automating financial calculations for **200+ employees**
- Wrote **CRUD RESTful APIs** with **C# and T-SQL** replacing third party services to save JANA **$10,000** annually
- Optimized web form validation with **React Hook Form** and **Zod** reducing database rollback instances by **75%**

Instructional Support Assistant
Jan 2023 - April 2025

University of Waterloo
Waterloo, ON

- Instructed **1,200+ students** in **C++** to build a C-like language compiler, from syntax parsing to binary code generation

Projects

CPlusPong | C++
- Built a Pong game in **C++**, implementing a real-time game loop, collision detection, score tracking, and input handling

Redacted Card Game | Flutter
- Programmed a digital card game featuring an adaptive CPU opponent, custom UI components and animations

UWBC-Web | Django, React, TypeScript, Redux, PostgreSQL
- Created a badminton court management tool for club which cut matchmaking time by **25%** for **3,000+ players**

PokéView | React, TypeScript, Framer Motion, HTML, CSS
- Crafted a Pokédex that compares **650** unique Pokémon, features card-flipping animations, dark mode, and stat charts

Technical Skills

Languages: TypeScript, JavaScript, C++, Dart, Python, C#, Kotlin, HTML, CSS, SQL
Technologies/Frameworks: React, Redux, Next.js, Entity Framework, Tailwind, Git, Flutter, Unreal Engine