



# Matthew Hao

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## Skills

**Languages:** Java, C, C++, Python, JavaScript, Typescript, HTML, CSS, Kotlin, Golang, PHP, SQL

**Frameworks and Technologies:** Spring Boot, React.js, Next.js, PostgreSQL, MySQL, MS SQL Server

**Tools:** Git, GitHub, Docker, AWS (S3, EC2), Jenkins, Maven, Linux, Postman

## Experience

### Immigr8 – Full Stack Software Engineer

Jan 2024 – Apr 2024

- Led small team in development and drove design decisions to build a modern SaaS U.S. Visa Application platform using **Typescript, React.js, Next.js, Java, Spring Boot, PostgreSQL, and AWS**
- Designed, implemented, and tested over **20** features end-to-end to improve visa application success rate, reduce end-to-end application process time by **40%**, and optimize collaboration between applicants, employers, and attorneys
- Adapted to dynamic customer requirements and fast-paced environment to ensure standards and deadlines were met

### PointClickCare – Software Engineer

Jan 2023 – Apr 2023

- Designed and implemented an API endpoint with dry run functionality for reingestion of a list of patient resources using **Kotlin** and **MS SQL Server**, leading to an over **80%** reduction in ingestion time of individual patients
- Reworked **SQL** queries to fetch provenance data from **MS SQL Server** and created provenance resources using **Kotlin** including test cases, for over 10 resources, to comply with FHIR standards
- Optimized various **Maven** dependency versioning while maintaining application functionality and performance to resolve over **15 critical, 30 high and 20 moderate** security vulnerabilities

### Zynga – Software Engineer, Core Architecture

May 2022 – Aug 2022

- Prototyped and implemented a code coverage report framework for Storage service using **PHP** as part of service rewrite, identified unnecessary code and improved code quality of rewritten service
- Implemented integration test suite for storage service using **Golang** to validate functionality of rewritten service and increased code coverage by **50%**
- Incorporated Minio into Dockerized development environment to emulate **AWS S3** functionality and tested archive restoration using the **AWS Golang SDK**

### OpenText – Software Developer, Core Case Management

Sept 2021 – Dec 2021

- Architected, designed, and implemented global dropdown list feature following **Microservices** and **MVC design** patterns using **RESTful APIs** in **Java** with **Spring Boot** and **PostgreSQL**, and tested APIs using **Postman**
- Resolved over a **dozen** user stories and tickets across frontend and backend case management applications involving **Typescript, Java, Spring Boot**

## Projects

### Personal Website ([Link](#)) – TypeScript, React, Next.js

- Created a personal portfolio website to highlight my professional experience and showcase my projects

### Realtime Operating System Implementation – C

- Designed and implemented a multi-tasking kernel with built-in memory allocation, inter-task communication, and console I/O for **ARM** processors in **C**, using a highest-priority scheduling algorithm supporting pre-emption and blocking

## Education

University of Waterloo

April 2025 (Expected)

Candidate for B.A.Sc in Computer Engineering