

Gary Chiu

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SKILLS

LANGUAGES

Proficient:

JavaScript • Java • C# • HTML/CSS

Experienced:

Python • SQL • TypeScript • C • C++

FRAMEWORKS AND TOOLS

Development

React • React Native • Node.js
Express • Next.js • .NET Core
Elasticsearch • Android • Unity3D

DevOps

Amazon Web Services (AWS)
Docker • Pivotal Cloud Foundry
Travis CI • Concourse CI/CD

Databases

PostgreSQL • MySQL • MongoDB

CERTIFICATIONS

AWS CERTIFIED DEVELOPER – ASSOCIATE

Issued 2020

EDUCATION

WESTERN UNIVERSITY

B.Sc. in Computer Science
2014–2019 | London, ON.

PROJECTS

MEALMATCH.IO | 2020

React Native, Expo, Node, AWS

- Mobile application that helps friends decide on where to eat based on shared preferences.
- Built using **AWS serverless architecture** and **React Native**

FREELANCE | 2020

Next.js, Node, AWS

- Consultant & engineer for an indie game studio to develop their homepage and backend infrastructure.

EXPERIENCE

KONRAD GROUP | SOFTWARE DEVELOPER

May 2019 – Present | Toronto, ON.

- Built a content management & publishing system for a leading American fitness company in **React**, **Node**, **Express**, allowing creators to curate & publish content for workout shows and manage music from labels — resulting in the production of over 80 produced shows at launch.
- Implemented **Elasticsearch** search engine to reduce search response times by 90%, with trending & suggested search functionality.
- Led a large infrastructure refactor to reduce API response times by over 600 ms, increased uptime & reliability, and doubled the throughput of asset ingestion batch processes
- Revamped the landing & support pages with new templates in **Sitecore CMS** using **Handlebars**, **JQuery**, and **.NET Core** for a top Canadian payment processor — leading to a 20% increase in Net Promoter Score.

MANULIFE | SOFTWARE DEVELOPER/PROJECT COORDINATOR COOP

May 2018 – August 2018 | Toronto, ON.

- Developed a Cloud-Native **React** and **Spring Boot** reference implementation, allowing new hires to quickly kick-start their projects — used in over 30% of new full-stack projects in 2019.
- Set up an enterprise pipeline for **Concourse CI/CD** with deployment to **Pivotal Cloud Foundry**, Single-Sign On, ACL-based authentication, React UI, and more.
- Worked as part of an **Agile** team to provide full-stack enhancements to Manulife's core Transaction Hub using **.NET Core** and **React**.
- Developed various Proof of Concepts for the Head of Architecture to evaluate potential technologies, tools, and products for company-wide use
- Led team meetings, created allocation reports, and assisted in the hiring process for the succeeding coop student & senior-level Architects.

MAPSTED | SOFTWARE DEVELOPER INTERN

January 2018 – April 2018 | Toronto, ON.

- Implemented critical features and performed bug fixes for the flagship **Android application**, such as integrating Matomo analytics engine, development of the search experience, voice navigation, and more.
- Created a **.NET Core** web application allowing clients to specify indoor regions for promotions, using **Angular** and **MySQL**.
- Wrote secure API endpoints for the production **.NET** server for handling app data syncing, user-reported store changes, data validation, and more.

BIG BLUE BUBBLE | GAMES PROGRAMMER — INTERN

May 2017 – December 2017 | London, ON.

- Developed core gameplay mechanics using the **Unity3D** game engine, becoming proficient in Unity game development, Unity APIs, and **C#** scripting.
- Performed general gameplay programming, cross-platform debugging, optimizations for mobile, and was responsible for the implementation of several game-modes according to design documents.