

Fabio Choi

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SKILLS

Languages:	NodeJS (JavaScript), TypeScript, Python, Golang, Java
Databases/ORMS:	MongoDB, MySQL, PostgreSQL, Mongoose, Sequelize, KnexJS
Web Development:	HTML, CSS, Express, React, Backbone, GraphQL, REST, Bootstrap, JQuery, Material UI
Tools:	Elasticsearch, Redis, Docker, Azure Web Services, AWS, JIRA, Heroku

PROFESSIONAL EXPERIENCE

Case IQ

Ottawa, ON

Software Application Developer

Jul 2022-Present

- Integrated Seneca, Knex.js, and PostgreSQL to establish a secure data access framework with granular Access Control List (ACL)
- Designed, and maintained REST APIs with robust error handling to facilitate scalable solutions for data exchange between backend services.
- Created, and managed frontend views using DustJS, Bootstrap, and LESS, resulting in responsive and dynamic user interface.
- Collaborated in peer design and code reviews to mitigate errors and ensured code alignment with team standards.
- Optimized Case submission efficiency by 5% through the removal of unnecessary services in business logic.
- Developed a limit counter full-stack feature to prevent excessive picklist values and fields for a custom form builder.
- Integrated Azure and OpenAI services to automatically summarize case details from various data sources, enhancing user experience.
- Implemented azure blob and vector storage functionalities tailored to automatically summarize files

Sanofi

Toronto, ON

ITS Analyst

Apr 2021-Jul 2022

- Conducted thorough testing and qualification of benchtop equipment, ensuring seamless data transfer into PI Data Historian.
- Developed and implemented robust data pipelines between the Manufacturing Execution System (MES) and PI Data Historian, optimizing data flow for real-time analysis and decision-making.
- Efficiently managed 20,000+ PI Tags for reading equipment data and ensure 99% uptime and proper configuration
- Assembled Ergotron workstations and individually configured IP addresses for seamless network integration at each station

Zero Gravity Labs

Toronto, ON

Innovation Developer - Intern

Sept 2018-Dec 2018

- Thoroughly researched face recognition technologies and applications and compiled market data in top industries
- Successfully designed infrastructure for sending and storing data to cloud to be used to train feature detection model (OpenCV)
- Designed infrastructure in AWS for sending and storing data to cloud to be used to train feature detection model.

EDUCATION

UNIVERSITY OF WATERLOO

2015-2020

Bachelor Of Applied Science (BASc) Mechanical Engineering
3.9 GPA – Dean's List

UNIVERSITY OF TORONTO - SCHOOL OF CONTINUING STUDIES

2021-2022

Coding Bootcamp: Full Stack Web Development Certificate
MERN Stack – MongoDB, ExpressJS, ReactJS, NodeJS

GEORGIA INSTITUTE OF TECHNOLOGY

2024-2026

Master of Science (MSc) in Computer Science

PROJECTS

Jibber-Jabber Chat App: [Github](#) - Social live messaging app users

2022

- Architected and implemented GraphQL APIs, empowering users to seamlessly manage messages, channels, and profiles.
- Integrated backend GraphQL with Socket.IO library for real-time communication, fostering live chats and alerts.
- Implemented secure user authentication using local storage and JWTs.
- Elevated UI aesthetics with the Material UI framework, ensuring a sleek and user-friendly design.

RL Trading Bot: Stock price predictor bot

2024

- Employed Q-learning reinforcement learning techniques, including variations like DynaQ, to develop and train a trading mode
- Leveraged Python and NumPy for efficient vectorization and calculations, enhancing the speed and accuracy of financial modeling for strategy design and evaluation.
- Formulated trading strategies integrating at least three indicators, allowing for the replacement of one indicator based on thorough experimentation and analysis.
- Produced a detailed report summarizing the implementation, and results, presenting findings in a clear and structured manner.

Advent of Code: [Github](#) - Annual programming event

2020-Present