

# Eric Wang

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## EDUCATION

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**University of Waterloo**  
*Bachelor of Computer Science*

Waterloo, ON  
Sept 2020 – April 2025

## SKILLS

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**Languages:** Python, Java, C#, JavaScript, TypeScript, HTML/CSS, Racket, C, C++, Go, SQL  
**Technologies:** AWS (Cloud Practitioner Certified), MongoDB, Express.js, React.js, Node.js, Git, Flask, Tensorflow, Azure, Angular, Kubernetes, Kafka, Oracle Database, .NET, Go Fiber, PostgreSQL, Docker

## EXPERIENCE

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### SS&C Technologies

Sept 2022 – Dec 2022

*Full Stack Developer*

*Toronto, ON*

- Implemented database sync service between **IBM DB2** database and **PostgreSQL** database, syncing mainframe of **100000+** records using **Kafka** and **Java Spring Boot**. Deployed with **Github Actions** workflows, **Docker**, and **Kubernetes**.
- Spearheaded development of new database query tool for non-technical users to view, correct, and analyze **DB2** data by developing interactive **GraphQL** sandbox and **Apache Superset** applications.
- Shipped major full-stack features using **Angular**, **NgRx**, **TypeScript**, **Keycloak**(**OAuth2.0** and **OpenID**), and **PostgreSQL**. e.g. authenticating users, search filters, API endpoint creation.

### Department of National Defence (Canada)

Jan 2022 – April 2022

*Full Stack Developer*

*Waterloo, ON*

- Digitized **5+** aircraft inspection processes by creating several web applications using **Javascript** and **Go Fiber Templating**, while leveraging **Docker** and **Azure** in an **Agile** environment.
- Improved accuracy of **machine learning** model that predicts airplane inspection duration and plans tasks for technicians by **30%**. Done by creating and integrating calendar that tracks technician work hours using **Go Fiber** and **PostgreSQL**.
- Decreased aircraft inspection time by **20%** by adding functionality that streamlines requests for parts and prioritizes delivery of crucial parts required for further aircraft repair.

### SaFuture Inc.

May 2021 – Aug 2021

*Software Developer*

*Oakville, ON*

- Developed responsive frontend for environmental risk assessment app using **AngularJS**, **PrimeNG** and **CKEditor** libraries.
- Improved functionality of internal dashboard using **HTML** and **jQuery**, increasing employee productivity.
- Engineered **10+** **.NET** endpoints using **Newtonsoft** and **Oracle managed data access**, increasing client assessment speed by **20%**.

## PROJECTS

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### Discount Monkey

[github.com/Ericwang52/DiscountMonkey](https://github.com/Ericwang52/DiscountMonkey)

- Product price-comparing service currently helping **30+** users find the best deals on products
- Responsive frontend designed using **React** and **Bootstrap**
- Backend is a **RESTful API** built with **Node** and **Express**, **MongoDB** was used to store user data
- Encrypted passwords using **bcrypt**. Authenticated with **PassportJS** using **JSON web tokens**

### PremierProphet - NewHacks 2020 2nd Place Award (out of 50)

[devpost.com/software/premier-prophet](https://devpost.com/software/premier-prophet)

- Machine learning model to predict football matches via **TensorFlow** and **Keras** on **Heroku**
- Constructed a responsive **HTML/CSS** and **Bootstrap** frontend and **Flask** and **Python** backend
- Made accurate predictions (**60-70%**) by using data from API calls to teach the model