

Eric Wang

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SKILLS

Languages: Python, Java, C#, JavaScript, Typescript, HTML/CSS, Racket, C, C++, Go, SQL

Technologies: MongoDB, Express.js, React.js, Node.js, Git, Flask, Tensorflow, Azure, Angular, Kubernetes, PrimeNG, Oracle Database, .NET, Go Fiber, PostgreSQL, Docker, AWS (Cloud Practitioner Certified)

EXPERIENCE

Full Stack Developer

Jan 2022 – April 2022

Department of National Defence

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%**. This was done by creating and integrating a fully functional 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.

Software Developer

May 2021 – Aug 2021

SaFuture Inc.

Oakville, ON

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

PROJECTS

Discount Monkey

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

- 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

Profit Prophet

github.com/ChickanWang/ProfitProphet

- Machine learning model and web app made to predict short-term stock prices
- Uses **Azure Machine Learning pipelines** and **Azure Cognitive Services** to train model using Yahoo Finance data as well as **web scraped** discussions/news
- Real-time inference pipeline was deployed using **Azure Kubernetes Service**
- Frontend made with **React** and **Bootstrap** and backend made with **Flask**

Animinder

github.com/ericwang52/animinder

- Chrome extension that sets reminders and helps users find recent airing anime episodes according to their MyAnimeList watchlist, currently serving **10+** users
- Uses **Javascript**, **HTML DOM** manipulation and **AJAX requests** to the MyAnimeList API

EDUCATION

University of Waterloo

Bachelor of Computer Science

Waterloo, ON

Sept. 2020 – April 2025