Eric Wang

e65wang@uwaterloo.ca | linkedin.com/in/eric-wang | github.com/Ericwang52 | ericwang52.github.io

EDUCATION

University of Waterloo	Waterloo, ON
Bachelor of Computer Science	*Sept 2020 - April 2025*

SKILLS

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

Amazon (AWS) — May 2024 – Aug 2024
SDE Intern — *Vancouver, BC*
- Investigated and outlined new distributed load testing/benchmarking framework for **AmazonMQ**.
- Implemented above framework using **Docker**, **JMeter**, and **AWS (AWS CDK, Lambda, EC2, ECS, S3, EventBridge)**.
- Final framework was capable of testing and generating a report for prod and dev brokers by simulating common customer usage patterns or custom patterns specified by the dev. Also established benchmarking practices and guidelines for the team using the framework.

Zynga Inc. — May 2023 – Aug 2023, Jan 2024 – Apr 2024
Software Engineering Intern — *Toronto, ON*
- Developed and drafted tech specs for new features for API used by games to conduct **A/B testing** on users over all Zynga games and maximize profits (**30 million requests/day**).
- Led migration of audience and metrics dashboards from **Angular 1.0** to **React** that allowed the configuration of above API by game and analytics teams.
- Fixed **70+** bugs related to the migration, ensuring a smooth release and removing a mountain of technical debt built up in Angular.

SS&C Technologies — Sept 2022 – Dec 2022
Full Stack Developer — *Toronto, ON*
- Implemented database sync service between **IBM DB2** on-site database and **PostgreSQL** cloud database, continuously syncing mainframe data using **Kafka** and **Java Spring Boot**. Deployed with **Github Actions** workflows, **Docker**, and **Kubernetes**.
- 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**.

SaFuture Inc. — May 2021 – Aug 2021
Software Developer — *Oakville, ON*
- Developed responsive frontend for environmental risk assessment app using **AngularJS**, **PrimeNG** and **CKEditor** libraries.
- Engineered **10+ .NET** endpoints using **Newtonsoft** and **Oracle managed data access**, increasing client assessment speed by **20%**.

PROJECTS

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