

Andy Li

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Education

University of Waterloo

September 2020 - April 2025

BACHELOR OF COMPUTER SCIENCE

- Rene Descartes National Scholarship - \$25,000, President's Scholarship of Distinction
- 3.99 GPA (94%)
- Relevant courses: CS246 - OOP, CS241E - Compilers, CS240 - Data Structures and Algorithms, CS251 - Computer Design
- Contest Honor Roll (top 5%): Canadian Computing Competition Senior, Euclid, AMC 12 (AIME qualifier)

Skills

Languages: Java, Golang, C++, C, JavaScript, HTML, CSS

Frameworks: React, Angular, Node, PostgreSQL, MySQL, MongoDB (Atlas), Bootstrap 4, jQuery

Tools: Git, Perforce, Docker, Kubernetes, Linux (Mint and CentOS), Bash, Jira, Asana, VMWare, Axios, Postman

Work Experience

OpenText

January 2022 - April 2022

SOFTWARE DEVELOPER

- Implemented significant improvements to the **OpenText TeamSite** product, which contains **over 1 million files**, by routinely performing bug fixes and adding features through the **AppWorks device emulation** and **Customer Improvements** projects.
- Tested software changes on **over 5 different versions** of the TeamSite product using numerous virtual machines on **VMWare**.
- Maintained on average a **5 day Jira ticket turnaround time** through extensive communication with the product team and mastering multiple languages/frameworks used in the code base such as **Angular, Java, jQuery**, and **JSP**.
- Assisted in upgrading TeamSite to **JDK 17** by performing a research project assessing JDK 17 compatibility with **over 100 different services**.

Mentum Group Inc.

May 2021 - August 2021

SOFTWARE ENGINEER

- Developed a restaurant location picker app that supports pickup and delivery for **over 100 restaurants** using **React** and **Apple MapKit** Javascript plugin with **responsive design**, supporting both **mobile and desktop users**.
- Implemented backend services used by **hundreds of thousands of customers** for food delivery services like Uber, SkipTheDishes, Doordash using **Golang**, which involved creating internal API endpoints implementing **gRPC protobuf** design, handling **Http requests** from clients, and converting external menus and user details to internal formats.
- Wrote extensive unit tests in **Golang** and tested many external and internal endpoints using **Postman**.
- Worked with a team of 2 other interns to add delivery support for restaurant orders using **React**, storing variables in a **Redux** state, making use of **React Hooks**, and using **Git** for agile development and repository organization.
- Managed and queried a database with **over 1 million rows** containing restaurant and customer information using **PostgreSQL** command line interface.

Projects

Build-A-Fleet

APP: BUILDAFLEET.HEROKUAPP.COM, GITHUB: GITHUB.COM/ANDYLICAN/BUILD-A-FLEET

- Created a Star Wars themed web application using **Node** and **Express** that provides users a visual catalog of starships and allows them to plan their fleet through simulated purchasing.
- Fetched data with over 100 entries from the **Star Wars API** using **Fetch API** and stored data using **MongoDB**.
- Incorporated **EJS** dynamic templating to display affordable starships (MongoDB query) along with owned ships.
- Designed and built webpages using **HTML**, **CSS**, and **Bootstrap 4**, and deployed the app using **Heroku**.

EcoSim

GITHUB.COM/ANDYLICAN/ECOSYSTEM-SIMULATOR

- Built an **object-oriented Java** program that simulates a self-sustaining ecosystem and the interactions within.
- Simulated hunting, breeding, and feeding of plants, wolves, and sheep using **graph algorithms** like **Breadth-First Search**.