

# Shuge Luo

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Vancouver

## EDUCATION

### University of British Columbia

Computer Science Bachelor

GPA 3.5/4.0

Expected Graduation Date: Dec. 2022

Sep 2020 - Dec 2022

Vancouver

## PROFESSIONAL EXPERIENCE

### Microsoft

Mar 2022 - May 2022

Software Engineer Intern DeepICM

- Implemented a DND draggable tool for DeepICM team to enhance the communication between different teams when mitigating outages.
- Implemented frontend and backend by React, python flask, Docker, and Nginx and deployed in Azure Web App.

### eBay

Jun 2021 - Jan 2022

Software Engineer Intern

- Developed and Maintained the front-end of eBay's future integrated security platform, via in-house framework, **React**, **React Hooks**, **Redux** and **javascript**.
- Optimized Front-end of SAM by lazy load, preload.
- Implemented API for SSO integration in **Java**, **Spring**, involving **Oauth2** authorization.
- The project SAM covers over 1000 inner users. Received Award from Team leader.

### Microsoft

Jan 2022 - Feb 2022

Customer Engineer Intern

- Solved Azure Cloud issues for customers by **C#**, **.Net core**

### Microsoft

May 2021 - Aug 2021

Support Engineer Intern

- Provided security support for Azure, the cloud product of Microsoft, including the health of the system, policies update, performance to measure against established performance thresholds
- Maintained Azure Security Center application, policy, defender, level to secure systems from vulnerabilities.

## PROJECT EXPERIENCE

### Rate this ruft (React,Node.js,MongoDB,heroku)

- Designed and Implemented Client-side via **React**, **Redux**, **Route**
- Created **RESTful** web services via **Node.js**
- Enabled different users to communicate with each other through implementing a WebSocket client to send and receive messages from the **WebSocket** server.
- Utilized **MongoDB** to store data with personalized middleware
- Protected server resources from unauthorized users by using **Session & Cookies**, with Authentication middleware. Sanitized input for preventing **XSS** attack

### Tesla Oauth

- Implemented tesla oauth API by following Oauth password owner mode
- Front-end built by **React-Native** as an **ios** application

### Warehouse Programing Language

- Designed our own programing language for warehouse management.
- Using **Antlr** for **tokenization** and **parsing**, following **visitor pattern**.

### Data Science Term Project:

- Built multiple **classification ML models** to predict the best location for the highest honey quantity with an accuracy of 51%.
- Scraped data from USDA on honey production, bee quantities and pesticide conditions for the year 2016 – 2018.
- Implemented Lasso and Correlation **matrix** as feature selection techniques to improve model performance by 9% on accuracy.
- Performed **grid search** to yield the highest accuracies while avoiding overfitting on each model's hyperparameters.

## SKILLS LIST

- Java, Spring, Maven
- .net core, C#, quartz
- Javascript, Typescript, React, Vue
- python, panda
- GraphQL, MongoDB, MySQL
- Azure, AWS