

Lian Duan

☎ (+1) 778-709-9416 | ✉ liand@student.ubc.ca | 🏠 liand.dev | 🌐 Lian-D | 📱 LianDu

Education

University of British Columbia

Bachelor of Science In Computer Science

Average: 74.1% (B) - 3rd Year Average: 80.5% (A-)

Vancouver, BC, Canada

Sept. 2017 - Exp. Aug. 2022

Experience

Web Software Developer Co-op

Form Swim (formerly Form Athletica)

Vancouver, BC, Canada

May. 2020 - Sept 2020

- Developed, updated and maintained back-end **REST API** routes utilized by the mobile app for **10,000+ active users** using **TypeScript, MySQL and AWS services**.
- Improved back-end endpoints to allow for featured and verified professional user badges while adding integration and unit tests to the CI/CD pipeline ensuring no code debt is added.
- Introduced an extra layer of security for firmware versions by having Lambda functions trigger staff emails when firmware production flags are set to true via the back-end using **AWS Lambda and AWS SES**.

Web Applications Developer Co-op

LedgerDocs

North Vancouver, BC, Canada

September. 2019 - April 2020

- Implemented a Database Job Queue system which resolved critical issues regarding high CPU consumption during peak processing hours, **massively reducing server crashing occurrences by 100%**.
- Revitalized platform by designing the front and back-end of an **Optical Character Recognition (OCR)** system using Google Tesseract responsible for **processing 30,000+ user documents per annual quarter**.
- Proposed and prototyped a Twilio Client and REST API that allows for communication with the web platform through SMS text using Node.JS with Ngrok.io, Express.JS and Twilio NPM Modules

Technical Skills

Programming Languages	JavaScript, TypeScript, SQL/MySQL, PHP, Java, C++, HTML, CSS
Frameworks / Libraries	Node.js, Express.js, Vue.js, Sequelize, OAuth, CodeIgniter, JQuery
Technical Tools	Git, Jira, Jenkins, Heroku, AWS SES, Linux (CentOS & Ubuntu)

Projects

SageBot.js | TypeScript and Heroku

github.com/Lian-D/SageBot.js

- A discord bot running on a **Heroku** instance that features over **70 different** unique commands.
- Includes robust features such as Public Polling and Stock data pulling.
- Currently deployed in 3 Discord servers consisting of **150+ total members**.

Aqueduct | JavaScript, ExpressJS, MongoDB, Twilio, RiveScript and Google Cloud Service

github.com/dhruv-tech/Aqueduct

- A Node.JS back-end server deployed on **Google Cloud Services** that auto replies to SMS messages with web scraped data using **Twilio** and a **MongoDB database**
- Includes data from Stocks, Weather, Wikipedia, Translation services, and Various News Sites.

Summary.js | JavaScript and Node.js

github.com/Lian-D/Summary.js

- A package library that allows for article condensing using the RAKE and Text-Rank Algorithms.
- Hosted demo through GitHub static pages.

Uni-pass | Java

github.com/Lian-D/Unipass

- A password manager that encrypts passwords with PBE hash sets to store, retrieve and manipulate login data.
- Took advantage of JavaFx to create an interactive UI using Stages, ListViews, Inputs and Alerts.