Lian Duan

778-709-9416 | LianD@student.ubc.ca | linkedin.com/in/LianDu | github.com/LianD | Canadian Citizen

EDUCATION

University Of British Columbia Vancouver, BC

Computer Science GPA: 3.5/4.33 – Bachelor of Science in Computer Science *Sept. 2017 – May 2022*

EXPERIENCE

Web Software Developer Co-op April 2020 – Sept 2020

Form Swim (formerly Form Athletica) *Vancouver, BC*

- Developed, updated and maintained back-end API routes utilized by the mobile apps for over 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.
- 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 Sept 2019 – April 2020

LedgerDocs *Vancouver, BC*

- Implemented a Database Job Queue system which resolved critical issues regarding high CPU consumption during peak processing hours, massively reducing server crashing.
- 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

Languages: TypeScript, MySQL / SQL, JavaScript, PHP, Java, C++, HTML, CSS
Frameworks: Vue.js, Node.js, CodeIgniter, OAuth 2.0, Mocha, Nightwatch
Developer Tools: Git, Jira, Visual Studio, Jenkins, Intellij/Webstorm, Amazon Web Services
Libraries: Sequelize, Jquery, Swagger, OAuth 2.0,

PROJECTS

Sagebot | *Typescript, Node.js, Heroku* https://github.com/Lian-D/SageBot.js

- A Discord bot running on a Heroku pipeline with TravisCL that handles a wide variety of commands by replying on Discord.
- Includes robust features such as Public Polling and Stock data pulling.
- Currently utilized in 3 Discord servers of consisting of 150+ total members.

Aqueduct | *JavaScript, MongoDB, RiveScript, Google Cloud Services* https://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, Node.js* https://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* https://github.com/Lian-D/Unipass

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