

Lian Duan

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Education

University of British Columbia

BACHELOR OF SCIENCE
Department of Computer Science

Vancouver, British Columbia,
Canada

Sept. 2017 - Exp. Aug. 2022

Skills

Programming Languages	JavaScript • PHP • SQL • Java • C • C++
Frameworks	Node.JS • CodeIgniter • JavaFX
Technical Tools	Git • Linux CL • NPM • Maven • JUnit 8.0 • LaTeX
Testing	JUnit, GDB, Valgrind
Environments	Visual Studio • IntelliJ IDEA • Android Studio • MacOS • Windows

Work Experience

LedgerDocs

WEB DEVELOPER

Vancouver, Canada

September. 2019 - April 2020

- Developed Software in a LAMP (Linux, Apache, MySQL, PHP) stack
- Worked with Linux CL, PHP, SQL and JavaScript to develop software for the web platform
- Designed and implemented the front and back-end of an Optical Character Recognition (OCR) system using Google Tesseract
- Wrote back-end PHP Script that interacts with the SQL database to automatically archive client's documents
- Implemented a PDF thumbnail system that previews PDFs on the web platform
- Decoupled, debugged and refactored old and broken code

Costco Wholesale

FRONT END ASSISTANT / BUGGY CLERK / MEMBERSHIP CLERK

Burnaby, Canada

June. 2017 - September 2019

- Exceeded responsibilities by writing complex spreadsheet macros that assisted management
- Maintained a standard of excellence by exceeding expectations of over 350 customers per shift
- Front lined customer queries in order to provide a high level of customer service, ensuring positive customer experience
- Dynamically adapted to the preferences of different customers

Project Highlights

SageBot.js

[HTTPS://GITHUB.COM/LIAN-D/SAGEBOT.JS](https://github.com/LIAN-D/SAGEBOT.JS)

JavaScript (Node.JS)

Sept. 2019 - current

- Developed a boilerplate Discord Bot using Node.JS and the Discord.JS library
- Utilized NPM modules and REST APIs to write plugins that enhanced functionality
- Used Travis CL to test build status
- Deployed this bot on a Heroku pipeline to be used in Discord Servers

Hero Database

[HTTPS://GITHUB.COM/LIAN-D/HERO-DATABASE](https://github.com/LIAN-D/HERO-DATABASE)

SQL + PHP

May. 2019 - July. 2019

- Used PHP to connect, update and query a MyRemoteSQL database
- Wrote PHP functions to create advanced queries in SQL whose functions were essential to the project
- Wrote .SQL scripts to automatically create tables and entries

Summary.js

[HTTPS://GITHUB.COM/LIAN-D/SUMMARY.JS](https://github.com/LIAN-D/SUMMARY.JS)

JavaScript

Dec. 2018

- Developed a powerful lightweight library that returns summaries of articles
- Implemented RAKE and Text-Rank Algorithms to score individual sentence strings
- Displayed Code through a Github hosted demo page

Uni-pass

[HTTPS://GITHUB.COM/LIAN-D/UNIPASS](https://github.com/LIAN-D/UNIPASS)

Java

Sept. 2018 - Dec. 2018

- Developed a password manager that encrypted passwords with PBE encryption
- Utilized JavaFx to create an interactive UI using Stages, ListViews, Inputs and Alerts

Hackathons

2019 **Participant**, NW hacks 2019
2019 **Participant**, LHD build day 2019
2019 **Participant**, NW hacks 2020

Vancouver, Canada
Vancouver, Canada
Vancouver, Canada

Extracurricular Activity

Burnaby Mountain Secondary Music Council

Burnaby

VICE PRESIDENT

Sept 2016 - Aug 2017

- Served as the Vice President of the Music Department representing approximately 400 students
- Proposed various activities and events to promote interest in the music department
- Provided mentorship for younger students and served as a positive role model

513 Hornets Royal Canadian Air Cadets

New Westminster

SQUADRON FLIGHT COMMANDER / CADET INSTRUCTOR

Sep. 2011 - Aug. 2017

- Managed and supervised a flight of approximately 30 cadets. Ensuring proper standards were met.
- Provided mentorship to juniors and new seniors
- Taught leadership and marksmanship lessons.
- Assisted officers in running activities and parades.