ubc science co-op

T: 604.822.9677 | F: 604.822.9676 | science.coop@ubc.ca | www.sciencecoop.ubc.ca

Lian **Duan**

3RD YEAR COMPUTER SCIENCE MAJOR · UNIVERSITY OF BRITISH COLUMBIA

(+1) 778-709-9416 | Lian.Duan@alumni.ubc.ca | Lian-D | LianDu

Skills

Languages	Java • SQL • C • C++
Tools	Git • Maven • JUnit • REST • Visual Studio • GitHub Desktop • IBM Cloud Services • MySQL
Enviroments	Intellij IDEA • Android Studio • PHPstorm • WebStorm • MyPHPAdmin

Projects

Hero Database
SQL • PHP

HTTPS://GITHUB.COM/LIAN-D/HERO-DATABASE
May. 2019 - July. 2019

- Worked in a small team of four to develop a web application and database that featured heroes
- Used PHP to connect, update and query a MyRemoteSQL database
- Spearheaded the creation and brainstorming of the database and ER diagram
- Asssisted in the normalization of the database to BCNF standards
- 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

Doc-Christina
Java • Python

HTTPS://GITHUB.COM/LIAN-D/DOC-CHRISTINA
Jan. 2019

- Worked in a team of five to develop a hands-free voice solution to rapid hospital worker deployment using a Raspberry PI that allowed hospital workers to request assistance completely hands free
- Integrated IBM Watson and Picovoice Pocupine to create wake-input-response functionality
- Implemented polling using Java threads in order to assess changes in data and update the main computer in real-time
- Conveyed changes in data with a JavaFX stage

Article Trim
Vanilla Javascript

HTTPS://GITHUB.COM/LIAN-D/ARTICLETRIM
Dec. 2018

- In two weeks, I learned to implement a straight forward article trimmer in JavaScript om my own
- Developed an article trimmer that prunes out needless sentences based on LexRank and RAKE sentence scoring algorithms.
- Implemented algorithms that assessed word frequency and stop-word frequency in order to determine optimal sentences in include and exclude

Amadeus Voice Assistant
Java

HTTPS://GITHUB.COM/LIAN-D/AMADEUS-VOICE-ASSISTANT
Sept. 2018 - Dec. 2018

- Developed a primitive Voice assistant that provided responses to questions.
- Integrated IBM Watson's Voice to Speech API to convert audio data to JSON format
- Utilized Wikipedia's REST API to answer a broad amount of queries
- Implemented Weather Query though the usage of DarkSky's weather API

Experience

Costco Wholesale
Burnaby, Canada

COLLEGE STUDENT RETENTION PROGRAM - FRONT END ASSISTANT
June. 2017 - current

- Frontlined customer queries in order to provide a high level of customer service, ensuring positive customer experience
- Performs multiple duties concurrently, including and not limited to: member service, cart retrieval, returns centre and cashier duties
- Expected to dynamically adapt to the preferences of different customers

Education

University of British Columbia
Vancouver, British Columbia, Canada

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
Sept. 2017 - Exp. Aug. 2021

Hackathons

2019   **Participant,** NWhacks 2019   *Vancouver, Canada*

Extracurricular Activity

Burnaby Mountain Secondary Music Council   *Burnaby*

Vice President   *Sept 2016 - Aug 2017*

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

513 Hornets Royal Canadian Air Cadets   *New Westminster*

Rank: Flight Sergeant   *Sep. 2011 - Aug. 2017*

Role: Flight Commander

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

References

Professional References

Mr. Gonzalo Dasiq
Costco Willingdon Supervisor
Burnaby
jundasig@gmail.com

Ms. Myla Maloto
Costco Willingdon Manager
Burnaby
w548fe14@costco.com

Ms. Rowena Vergara
Costco Willingdon Supervisor
Burnaby
w548fe17@costco.com

Personal References

Ms. Alice Fulop
SD41 Teacher
Burnaby
Alice.Fulop@SD41.bc.ca

Ms. Sandy Ryant
SD41 Teacher
Burnaby
Sandy.Ryant@SD41.bc.ca

Mr. Paul Dudley
SD41 Teacher
Burnaby
Paul.Dudley@SD41.bc.ca