Derek Chen

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Education

University of British Columbia   *Vancouver, BC*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (4.10/4.33)   *2018-2023*

- **Relevant Coursework**, Software Engineering, Algorithm and Data Structures, Operating Systems, Design Principles

Skills

Languages   Java, JavaScript, TypeScript, Python, C, C++, HTML, CSS, SQL, XML

Technologies   React, Redux, AWS, Firebase, Github Actions, Git, Node.js, Jira, Selenium, Docker, DynamoDB, Jenkins

Experience

Huawei   *Burnaby, BC*

SOFTWARE ENGINEER INTERN   *Jan 2021 - present*

- Built and configured NGINX reverse proxy with load balancing to handle real time socket connection between frontend and backend
- Implementing REST API with Python and C++ to convert YANG data model to XML, JSON, and C++

SAP   *Vancouver, BC*

SOFTWARE DEVELOPER INTERN   *May 2020 - Dec 2020*

- Worked on HANA & Analytics - User Management, Licensing, Core UI
- Reduced runtime of external facing REST API by 30% by optimizing backend logic
- Designed and implemented data pipeline using Apache Airflow for workflow management
- Led the overhaul and redesign of regression automation tests written in Python and Selenium deployed on Jenkins which improved consistency by 80%
- Increased reliability in unit tests by mocking database calls and refactoring Javascript production code

UBC Computer Science Department   *Vancouver, BC*

TEACHING ASSISTANT   *Sept. 2019 - May. 2020*

- Led programming labs for over 100 students, explaining programming concepts in Java including OOP, writing tests (JUnit), design patterns, and type hierarchies
- Guided students with semester-long personal projects that applies SOLID design principles and GUI development (JavaFX)

Community Projects

nwPlus   *Vancouver, BC*

INTERNAL TOOLS DEVELOPER (VOLUNTEER)   *May. 2020 - present*

- Developed websites that allow execs to manage hackathons, event websites, and application evaluation portal using React, yarn, and Firebase Storage/Firestore
- Implemented a pipeline by writing scripts on Github Actions and Travis CI/CD that reduced regression

UBC BizTech   *Vancouver, BC*

DEVELOPER LEAD (VOLUNTEER)   *Sept. 2019 - present*

- Managing a team of 8 developers for a React/Redux web app with tasks involving development, collaboration with design and marketing teams, and onboarding
- Created a custom API on a serverless backend by leveraging cloud tools such as AWS Lambda, DynamoDB, API Gateway, and S3 buckets

Projects

First Hello

NWHACKS 2020 - BEST USE OF GOOGLE CLOUD (1ST PLACE)

- Collaborated with 4 peers to develop a **mobile app** written in **Java** that makes networking easier
- Designed and implemented **Firebase Storage/Firestore** schema to store dozens of images and user data that can be efficiently queried and written to
- Integrated **Microsoft Azure** (REST API) for facial detection and verification with live camera input through an XML UI

Wish a Dish

HACK THE NORTH 2021

- Worked in a group of 3 to develop a mobile app and Voiceflow that allows for users to keep track of items in their fridge and what recipes they could make with those items
- Implemented Firebase Functions server to call Vision API for object and character image recognition
- Integrated HTTP calls to custom backend from flutter/dart frontend