

Derek Chen

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Technical Skills

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

Technologies: React, Redux, AWS, Firebase, Github Actions, Git, Node.js, Selenium, DynamoDB, Jenkins, .NET

Education

University of British Columbia

Vancouver, BC

BSc. of Computer Science – Dean's Honor List (4.0 CS GPA)

Expected Grad: May 2023

Experience

Meta

Menlo Park, California, USA | Sept 2022 – Dec 2022

Software Engineer Intern

Technologies: PHP, Hack, GraphQL, JavaScript, React.js

- Built full stack activity log for comment moderation, completing project 3 weeks before expectation
- Added Hack/PHP backend APIs and corresponding React components to filter logs with date pickers, drop down menus, and search bars
- Developed insights dashboard and APIs for millions of users to view essential moderation statistics

Microsoft

Bellevue, Washington, USA | May 2022 – Aug 2022

Software Engineer Intern

Technologies: C#, .NET Core, TypeScript, React.js

- Implemented gas cashback feature on Microsoft Start mobile app allowing users to browse and claim cashback offers in their proximity – saving consumers \$250 million annually
- Led design meetings with relevant stakeholders to identify corner cases and decide UX experience
- Integrated Upside cashback API into RESTful backend handling security concerns with 3rd party

Orbis Investments

Vancouver, Canada | May 2021 – Aug 2021

Software Engineer Intern

Technologies: C#, SQL, .NET Core, AWS EC2

- Developed a backend script to identify and compute Wash Sale Tax Rule in fund portfolio profit/loss report, saving accountants 100 hours annually and reducing risk of errors by 30%
- Develop diagnostics dashboard for accountants, reducing manual checking time of tax from 1 hour to 5 mins

Huawei

Burnaby, Canada | Jan 2021 – Apr 2021

Software Engineer Intern

Technologies: Java, Python, Flask, Maven, Spring, YANG

- Built and configured NGINX reverse proxy with load balancing to handle real time socket connection between frontend and backend which increased traffic flow efficiency by 23%
- Architected and modified an open-source project to develop a microservice that extracts a subtree and its dependencies from tree/graph structure

SAP

Vancouver, Canada | May 2020 – Dec 2020

Software Developer Intern

Technologies: Python, Selenium, JavaScript, Apache Airflow, SQL

- Reduced runtime of external facing REST API by 30% by optimizing backend logic
- Implemented Apache Airflow data pipeline for workflow management of more than 1 million users/clients
- Led overhaul of Jenkins automation tests which improved consistency by 80% for production deployment

UBC Computer Science Department

Vancouver, Canada | Sept 2019 – Apr 2020

Teaching Assistant

Technologies: Java, JavaFX, Swing, Junit

- Led programming labs for over 100 students, explaining programming concepts in Java including OOP, writing tests, design patterns, and type hierarchies

Community Projects (Extracurriculars)

nwPlus – Western Canada's Premier Hackathon Club

May 2020 – present

Internal Tools Developer

Technologies: React, Yarn, Next.js, Firebase, JavaScript

- Led the development of an assessment portal for 100+ concurrent hackathon applicants
- Developed Content Management System to manage hackathon and external web apps

Personal Projects

First Hello: facial recognition to identify people and interests

Best use of Google Cloud @ nwHacks 2020