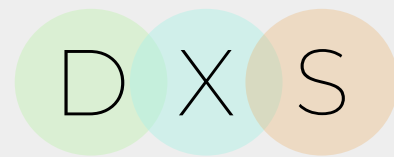


# DAVIS SONG



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## EDUCATION

University of British Columbia: Bachelor of Science in Computer Science

- Core Average: 86.8% | Cumulative Average: 84%
- British Columbia Provincial Achievement Scholarship, British Columbia District Scholarship

## TECHNICAL SKILLS

Programming	Web	Frontend	Database	Automation/Testing	Tools/OS
C/C++ Java Python Racket [functional]	HTML/CSS Javascript/Typescript Express.js Three.js	React.js Swing Angular	SQL	JUnit Jenkins Selenium Mocha/Chai	Git/Github Figma Linux Terminal macOS/Windows

## WORK EXPERIENCE

Software Development Co-op @ Copperleaf

Vancouver | September 2021 - April 2022

- Modernized system UI by leveraging Angular internal design library to create a consistent and delightful UX across client dashboards
- Boosted team efficiency and velocity by constructing Selenium automation tests, thereby reducing manual regression workload
- Contributed to internal automation and frontend libraries by adding functionality, upgrading documentation, and refactoring existing code
- Stepped into leadership role by assisting in sprint planning and giving quarterly presentations + developer demos to entire company

## PROJECTS & HACKATHONS

COMPILER: x86-64 CPU Instruction Compiler

March 2022

- Learning the functional programming paradigm on the fly while building a compiler from a Racket subset to x86 machine language
- Analyzing the inner workings of a compiler to translate from modern high-level languages to modern register machine architectures
- Leading a team in building, extending, and maintaining a complex software project being responsible as the main point of communication

U-QUEST: University Data Parsing and Query Engine

Github | December 2022

- Utilized test-driven development to build an efficient query engine in Typescript, capable of processing 1000s of data entries in seconds
- Offered RESTful API endpoints with Express.js to provide a mechanism for clients to conveniently leverage our service
- Implemented UI with React.js to provide a convenient surface for direct querying of historical course averages and campus building data

VACBASE: Vaccine Management Solution

Github | August 2021

- Inspired by the pandemic to solve the logistics of mass vaccine distribution with a comprehensive admin and patient record system
- Responsible as the primary backend developer of the team to design queries and establish the database with JDBC and Oracle Database
- Developed with a team-based Agile approach in Java, utilizing object-oriented methodology to create organized and highly readable code

REFRY: Health & Lifestyle Web App

Devpost | January 2021

- Promote healthy living by mapping restaurants to alternative healthy recipes to combat the rise of unhealthy food delivery services
- Created a beautiful and interactive UI by visualizing the concept with Figma and then realizing the design React.js
- Employed the Zomato and Edamam APIs in the backend to fetch restaurant and recipe data



## LANGUAGES

- English [Native]
- Japanese [Advanced]
- Chinese [Intermediate]

## OTHER WORK EXPERIENCE

### **Marketing @ Wet Habitat Aquarium Atelier**

August 2020 - June 2022

- Significantly boosted social media presence by designing advertisements and educational content for use by clients
- Ensured customer delight by sharing years of hobby knowledge to give a pleasant in-store shopping experience

### **Line and Prep Cook @ Gyu-Kaku Japanese BBQ**

August 2018 - December 2019

- Honed work ethic and learned to work under pressure through the experience of a fast-paced kitchen environment
- Excelled as a team player with strong energy and clear communication to consistently meet rush hour expectations

## LEADERSHIP & VOLUNTEER EXPERIENCE

### **Co-President @ University Hill Secondary Chamber Orchestra:**

September 2017 - June 2018

- Lead a student-run orchestra which performed free concerts for the community, especially in senior homes around Vancouver

### **School Representative @ Vancouver District Student Council:**

September 2016 - June 2017

- Acted as the key link between student body and VDSC, serving to communicate and highlight local issues or concerns

## INTERESTS

- Piano, Singing
- Hiking, Camping
- Ultimate Frisbee, Basketball
- Aquariums, Design, Photography