YUHENG OUYANG

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EDUCATION

Bachelor of Science, Computer Science

The University of British Columbia

• Faculty of Science International Student Scholarship 2023

- Faculty of Science International Student Scholarship 2021
- Trek Excellence Scholarship 2021 (Top 5.01-10%)
- Outstanding International Student Award 2020

EXPERIENCE

Undergraduate Teaching Assistant

Sep 2023 – present

Sep 2020 – May 2025

Vancouver, BC, Canada

The University of British Columbia

Vancouver, BC, Canada

• Organize labs, assess coding assignments, and hold office hours both in person and online

Application Developer

May 2023 – Aug 2023

Insurance Corporation of British Columbia

North Vancouver, BC, Canada

- Design full automation test suites for web applications using Selenium and JUnit
- Develop prototype internal forge app with OutSystems platform
- Gather and analyze user requirements for new functionality

Application Support Analyst

Sep 2022 – Apr 2023

British Columbia College of Nurses and Midwives

Vancouver, BC, Canada

- · Validate system changes, bug fixes, and feature updates through user acceptance testing
- Write and execute automation scripts for UI testing using JavaScript and Nightwatch.js
- Monitor Jenkins for deployment smoke tests, fix environmental issues, and report failures
- · Configure CRM systems including dashboard, view, and workflow changes
- Conduct preliminary investigations on new issues and suggest workarounds or solutions

PROJECTS

Personal Finance Manager ()

Sep 2024 – present

- A cloud-based application that analyzes monthly expenses by category. It predicts users' spending and provides budgeting insights. AWS provides cloud storage (S3), computing (EC2 and Lambda), and database services (RDS). User data is securely queried from a MySQL instance and analyzed with scikit-learn.
- Keywords: cloud computing, relational database, machine learning, data analysis

Fitness Tracker Sep 2023 – Dec 2023

- A prototype online platform that connects gym owners and fitness enthusiasts. Users can track their health metrics, manage subscriptions, and build fitness plans. Functionalities are achieved by Node.js and data is efficiently queried from an Oracle DB instance.
- Keywords: full-stack development, database integration, app deployment, waterfall model

Personal Website

Dec 2022 – present

- My personal website containing my profile, work experiences, projects, and digital notes. Powered by Jekyll engine and configured through YAML. Hosted under GitHub Pages.
- Keywords: HTML, CSS, Jekyll, web design

More Cats Mod for Minecraft ()

May 2022 – Aug 2022

- A game mod that brings more cat elements to Minecraft 1.18.2. With installation, players
 can construct their game worlds with cat blocks, decorate their houses with cat-themed
 items, and summon cute kittens.
- · Keywords: game modding, application programming interface, third-party integration

CPlanner Lite C Jul 2021 – Aug 2021

- A course planner application with Swing GUI, allowing users to manage a local worklist of university courses using JSON. Users can add/delete/star the courses in the worklist, view summaries of the worklist, and receive reminders when courses are conflicting.
- Keywords: object-oriented programming, unit testing, graphical user interface

VOLUNTEERING

Research and Design Coordinator

Mar 2022 – Sep 2023

The C.O.D.E. Initiative

Port Moody, BC, Canada

- Design online workshops Beginner Algorithms and Data Structures and App Development II
- Teach children and youth in 1:1 and group settings, including Scratch, Python, Java, and AI

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals Microsoft	Jun 2024 Online
ISTQB Certified Tester Foundation Level International Software Testing Qualifications Board	Nov 2023 Online
CPR/AED Level C Canadian Red Cross	Jul 2023 Vancouver, BC, Canada
Tableau Desktop Specialist <i>Tableau</i>	Jan 2023 Online

TECHNICAL SKILLS

Programming Languages: Java, C/C++, Python, TypeScript, JavaScript, Racket, R, SQL **Frameworks**: Node.js, Chai.js, Mocha.js, Nightwatch.js, Selenium, JUnit, TestNG, scikit-learn **Tools & Platforms**: Git, Jira, Visual Studio, CMake, Gradle, Maven, Jenkins, Docker, Azure, AWS **Data Management**: Oracle DB, IBM Db2, Dynamics 365, Excel/VBA, Access, Tableau