



RYAN WU

Richmond, BC - Canada | 778-899-9018 | rwa106@sfu.ca | github.com/b0bhat

TECHNICAL EXPERIENCE

ADMIN AND WORK ORGANIZATION WEB APPLICATION

New Step Consultation Services

- ❖ Developed an web application and database for employee work management and organization of records for payroll processing
- ❖ Implemented a full-stack application with a HTML/CSS website, Java backend, and SQL database layer
- ❖ Utilized Heroku, Spring, and other web development libraries and platforms in order to create a stable, accessible, and secure application

EMPLOYEE AND PROJECT MANAGEMENT APPLICATION

BGC Engineering, Simon Fraser University

- ❖ Worked as a team with academic peers to create an application tracking employee schedules, workload, and projects, replacing the previous spreadsheet implementation
- ❖ Created a software development process to divide work evenly, ensure progress, and integrate one another's work
- ❖ Received real-world feedback for revision throughout development in meetings with company management

UNITY GAME DEVELOPMENT

Ongoing Personal Projects

- ❖ Developing a working prototype of a complex 3D exploration and strategy game
- ❖ Designed a realistic procedural solar system based on stellar criteria, utilizing orbital mechanics to generate and simulate effects on planets and ships
- ❖ Learnt and implemented programming techniques in physics, AI, and graphics
- ❖ Self-taught C#, Unity, and Blender to develop and create all code and art assets

SKILLS AND AWARDS

Technical Software Proficiencies

Proficient with macOS, Windows, and Linux

Microsoft SQL Server, PostgreSQL

- ❖ *Database Management*

Sketchup, Blender

- ❖ *3D Modeling, Printing, and Animation*

Adobe Photoshop, GIMP, Clip Studio Paint

- ❖ *Graphics Editing, Design*

Matlab

- ❖ *Numeric Computing Environment*

OpenGL

- ❖ *2D and 3D Graphics Rendering API*

Programming Languages

Python	5 years
HTML / CSS	4 years
Java / Processing	3 years
C / C++	3 years
JSON / XML	3 years
MATLAB	2 years
SQL	1 year
C#	1 year
Javascript	1 year
Assembly	1 year
Lua / Go / Ruby / Lisp / Haskell	<1 year

Awards

Science Fair Engineering Award - *2016 Richmond Christian School Science Fair*

Queen's Venturer Award - *Scouts Canada, Award Ceremony at Government House, Victoria*

Chief Scouts Award - *Scouts Canada*

Standard First Aid, *Red Cross and St. John's Ambulance*

Grade 8 Piano, with Honors - *Royal Conservatory of Music*



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WORK EXPERIENCE

TUTOR (2020-Present) *Independent*

- ❖ Prepared teaching programs in English and Math for in-person and online tutoring

FULL STACK DEVELOPER (2020-Present) *New Step Consultation Services*

- ❖ Developed an administration web application and database for employee and management use

MATH AND ENGLISH TUTOR (2019-2020) *Kumon Math and Reading Center*

- ❖ Tutored and marked students' work to complement and accelerate their learning to encourage proficiency in math and english studies

CASHIER (2017-2020) *The Adventure Zone*

- ❖ Performed cashier, customer service, and retail responsibilities to assist customers and ensure the quality of their experience

CAMP PLANNER AND LEADER (2016) *Koinonia Evangelical Church*

- ❖ Planned and led a week long space summer camp with a team, developing activities and inspiring interest for astronomy in children

VOLUNTEER EXPERIENCE

SERVICE VOLUNTEER (2016-Present) *Koinonia Evangelical Church*

- Performed leader and facilitator roles in the children's ministry team to assist with service and teaching

LEADER/SCOUTER (2015-Present) *Scouts Canada*

- Planned and executed events, camps, and outdoor activities with the leadership team for the section to teach life and outdoor skills in fun environments

VOLUNTEER (2014-2018) *New Step Consultation Services*

- Assisted behavioral interventionists to facilitate programs for special needs children and provided a safe and fun learning environment

TRAINING STAFF CADET (2013-2018) *Royal Air Cadets of Canada*

- Provided informative and structured lessons to younger cadets pertaining to aviation, leadership, citizenship, and individual/team development

EDUCATION AND INTERESTS

Education

Simon Fraser University - Bachelor of Science, Major in Computing Science, 2020-Present

- ❖ Accepted into the SFU-ZJU Dual Degree Program
- ❖ Expected Graduation: 2023 Summer

Richmond Christian Secondary School, 2015-2019

Interests and Hobbies

Personal Projects
Game Modification
Digital Art, Graphic Design, 3D Modeling
Badminton
Literature

Fields of Academic Interests

Biology
Cognitive Sciences
Psychology
Astronomy
Mathematics