RACHAEL MOHL

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TECHNICAL SKILLS

LANGUAGES – Java, C, Python, JavaScript, HTML/CSS, React, Clojure, Bash, MATLAB, R, Assembly

OPERATING SYSTEMS – Mac OS, Windows, Debian Linux

DEVELOPMENT TOOLS – GitHub/GitLab, JIRA, Gerrit, Jenkins, Visual Studio, Processing, Eclipse, Sublime Text, VirtualBox

OTHER SKILLS – Familiar with AGILE methodologies, Microsoft Office, Google Suite, knowledge of JSON and XML formatting, SQLite

EDUCATION

BACHELOR OF COMPUTING, COMPUTER SCIENCE (CO-OP), *GUELPH, ON*
UNIVERSITY OF GUELPH
2019 – present
- Currently maintaining 88% cumulative GPA
- Minoring in Mathematics

KEY ACADEMIC PROJECTS

- Software Systems Development and Integration Project (2021) – Webpage and server system created using C, HTML/CSS, JavaScript, jQuery, Node.js, and MySQL that allows for the upload, download, creation and editing of GPX files.

- Object Oriented Java Adventure Game (2020) – Text-based adventure game developed in Java with a GUI version implemented using Swing. Game surroundings are loaded and parsed from JSON files, which are checked for proper formatting using JUnit test cases. Program is compiled using Maven and implements serialization.

WORK EXPERIENCE

SOFTWARE DEVELOPER, *WATERLOO, ON*
MAGNET FORENSICS
September – December 2021
- Worked with the Magnet *Automate* team to develop back-end code using Clojure and front-end code in a React/Redux environment
- Gained experience with unit, functional, end-to-end, BVT, and API testing using external tools like Jest, Cypress, and Postman
- Became familiar with management and development tools including JIRA, Git, Gerrit, Jenkins, Kanban, and Slack

HEALTH INFORMATICS PRACTICUM STUDENT, *TORONTO, ON*
WOMEN'S COLLEGE HOSPITAL
May – August 2021
- Helped vaccination clinic staff with IT issues on global vaccine system COVax and patient management system Verto Flow using technical and problem-solving skills
- Aided supervisor in managing the new daily creation of staff accounts on COVax system using Microsoft Excel
- Implemented time-management and organizational skills in order to keep track of and punctually follow flexible schedule, including shifts on weekends and vaccine clinics held at a variety of different locations throughout Toronto during the work week

CODING CAMP COUNSELLOR, *TORONTO, ON*
UPPER CANADA COLLEGE
June – August 2019
- Educated novice coders in the fundamentals of programming with Python by going over sample code and leading engaging learning activities
- Taught basic terminal skills including how to compile and run programs on Mac OS using Bash
- Used communication and instructional skills to guide novice coders in developing a program simulating Yahtzee

EXTRA-CURRICULAR INVOLVEMENT

GUELPH WOMEN IN COMPUTER SCIENCE (GWICS), *GUELPH, ON*
September 2019 – present
- GWiCS Go CODE Girl Workshop (2021) – presented and demonstrated how to effectively use and implement HTML and CSS to young women in grades 7-11 and guided them in creating a web page of their favourite TV-show character
- Cybersecurity Case Competition (2021) – created and presented slideshow applying knowledge learned throughout the week in event workshops in which professionals outlined the most important aspects of cybersecurity and its use in technology today
- Magnet Forensics Hackathon (2019) – data from a suspected criminal's mobile device was provided and searched through using SQL database manager applications on Mac OS

LANCEBOTICS ROBOTICS TEAM, *TORONTO, ON*
September 2018 – June 2019
- Worked as a lead programmer to ensure a collaborative and fun environment on the institution's first all-girls robotics team
- Developed code used in competitions for driver control, autonomous periods, and programming skills using VEX C++
- Updated and improved upon programs under pressuring time constraints and in high-stress environments

LEASIDE HIGH SCHOOL SOCCER TEAM, *TORONTO, ON*
September 2016 – June 2019
- Dedicated member of both outdoor and indoor teams
- Represented school in 2018 outdoor soccer OFSAA competition

LEASIDE HIGH SCHOOL RUGBY TEAM, *TORONTO, ON*
September 2016 – June 2019
- Valuable player on both 7's and 15's teams
- Guided and helped younger players learn rules, implement field formations, and improve tackling skills in later years

ACHIEVEMENTS & CERTIFICATES

DAVID STICKNEY AWARD, *TORONTO, ON*
LEASIDE HIGH SCHOOL
June 2019
- Awarded to two graduating students who show a strong aptitude for mathematics, athletics, and community service

SENIOR ATHLETIC LETTER, *TORONTO, ON*
LEASIDE HIGH SCHOOL
June 2019
- Awarded to students who are dedicated members of a sports team throughout every athletic season of their high school career

BUILD AWARD, *ST. CATHARINES, ON*
ONTARIO VRC PROVINCIAL CHAMPIONSHIP
February 2019
- Awarded to competitive and high-scoring teams with a safe, durable, effective and consistent robot design

JUDGES AWARD, *MISSISSAUGA, ON*
MISSISSAUGA VRC ROBOTICS COMPETITION
December 2018
- Awarded to a team that shows impressive strength and skill in a category that does not fit other competition awards
- Given to my teammates and I for our admirable teamwork and overall outstanding achievement as a first-year, all-girls team

CREATE AWARD, *TORONTO, ON*
TORONTO VEX ROBOTICS COMPETITION
November 2018
- Awarded to a team that implements an effective engineering and design solution to a strenuous season-related obstacle

RUGBY MVP AWARD, *TORONTO, ON*
LEASIDE HIGH SCHOOL
June 2018
- Awarded to a talented, devoted player who strives to help motivate and teach their teammates essential elements of the game