Rachael Mohl

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Work Experience

UNDERGRADUATE RESEARCH ASSISTANT
University of Guelph

📅 May 2022 – Sept 2022   📍 Guelph, ON

- Worked with PyTorch to implement and fine-tune Long Short-Term Memory and convolutional neural networks
- Implemented algorithms related to path planning, path interpretation, and map generation
- Contributed to master student's academic paper focused on deep learning and novel path planning techniques

SOFTWARE DEVELOPER
Magnet Forensics

📅 Sept 2021 – Dec 2021   📍 Waterloo, ON

- Developed 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 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
Women's College Hospital

📅 May 2021 – Aug 2021   📍 Toronto, ON

- Helped vaccination clinic staff with IT issues using technical and problem-solving skills
- Aided supervisor in overseeing the new daily creation of staff accounts on COVax system using Microsoft Excel
- Implemented time-management and organizational skills to follow and manage a busy and variable schedule

Projects

RAYTRACING GRAPHICS PROJECT
📅 Mar 2022

Loads data from a text file that contains positional, colour, and reflectivity information about a light source and at least one sphere. Raytracing is implemented using HTML, JavaScript, and WebGL to display the described light source and sphere(s) in a 3-D environment with realistic lighting.

SOFTWARE SYSTEMS DEVELOPMENT AND INTEGRATION PROJECT
📅 Nov 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.

PERSONAL WEBSITE
📅 Sept 2021 - Present

Made with HTML, CSS, and JavaScript. Has all of my co-op work term reports as well as links to my resume, GitHub, and LinkedIn.

Technical Skills

LANGUAGES
Python • Java • C • JavaScript • HTML/CSS • React • Bash • SQL • LaTeX • ROS • WebGL • R • MATLAB • Assembly

OPERATING SYSTEMS
Mac OS • Linux • Windows

DEVELOPMENT TOOLS
GitHub • JIRA • Jenkins • Gerrit • Visual Studio • Atom • Figma • Processing • Sublime Text • RVIZ • Gazebo

OTHER SKILLS
AGILE • Microsoft Office • Google Suite • JSON/XML

Education

UNIVERSITY OF GUELPH
BComp, Computer Science (Co-op)

📅 Sept 2019 - Present   📍 Guelph, ON

- Currently maintaining 88% cumulative GPA
- Minoring in Mathematics and Linguistics

Extra-Curricular Involvement

GUELPH WOMEN IN COMPUTER SCIENCE (GWICS)

📅 Sept 2019 – Present   📍 Guelph, ON

- Member of executive team as Event Manager starting fall 2022
- GWiCS Go CODE Girl Workshop (2021) – presented and demonstrated how to effectively use and implement HTML and CSS and guided young women in creating a simple web page
- 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

UNIVERSITY OF GUELPH

📅 Sept 2019 – Present   📍 Guelph, ON

- Volunteer at Spring Academic Open House (2022) – talked to future students about my experience at the University of Guelph and gave tours of the university's official Computer Science building, Reynolds

LANCEBOTICS ROBOTICS TEAM

📅 Sept 2018 – June 2019   📍 Toronto, ON

- 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