

# Hope Hadfield

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## EDUCATION

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### University of Toronto

4th Year - BAsC in Computer Engineering, Minor in Artificial Intelligence

Toronto, ON

Sep. 2020 – June 2025

- **3.9/4.0 GPA, 90%** cumulative average

## EXPERIENCE

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### Red Hat - Software Engineering Intern, 16 months

May 2023 – Aug. 2024

*IDE Extensions*

Toronto, ON

- Implemented “Go to Declaration” feature in the **VS Code Java plug-in**, with 37M+ downloads
- Designed and implemented feature allowing users to paste Java code in file explorer to automatically create file in VS Code using **Java** and **Typescript**
- Drove initiative with Microsoft engineers to migrate and improve Java syntax highlighting in VS Code central repository
- Planned and developed a customer-facing website that provides documentation and updates on Red Hat’s IDE extensions using **React** and **agile development methodologies**

### TELUS - Software Engineering Intern, 4 months

May 2022 – Aug. 2022

*Fraud Analytics*

Toronto, ON

- Made improvements to fraud metric dashboard for directors and VPs, including an **80% latency reduction**, using **SQL**, **Pandas**, and **Google Data Studio**
- Collected, cleaned, and analyzed data pertaining to fraud rate, highlighting an unidentified weak spot in one distribution channel
- Produced bi-weekly automated visual report for managers examining the productivity of team analysts

### TELUS - Software Engineering Intern, 4 months

May 2021 – Aug. 2021

*Fleet Management*

Toronto, ON

- Created automated, personalized monthly mail-outs for over 200 fleet managers, leading to estimated **savings of over \$18,000** annually and 65 employee hours monthly, using **HTML** and **SQL**
- Developed escalation process for stale vehicle replacements/returns, including automated weekly reminder emails which addressed over **\$500,000 in potential savings**

## PROJECTS

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### AI Emotion Detection Program

2023

- Produced a model that could detect one of six emotions given an image of a human face using **Python** (including **PyTorch** and **NumPy**)
- Developed, trained, and finetuned a convolutional neural network resembling AlexNet
- Could identify a happy face with 80.5% accuracy

### GPS Mapping Software – 1st of 100 teams

2022

- Created a navigation system with a GUI using **C++** along with various APIs (EZGL, OSM), gaining experience in source control with **Git**
- Produced fastest solution to a variant of the Travelling Salesman problem using greedy algorithm, genetic algorithm, 3-opt, and multithreading

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, Typescript, SQL, HTML/CSS, React, Bash, Verilog, Assembly

**Developer Tools:** Git, VS Code, IntelliJ, Eclipse

**Libraries:** Pandas, Pytorch, NumPy, Matplotlib

## EXTRACURRICULARS

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2x Indoor Skydiving World Championship medalist, avid canoe camper, bass guitar player