# **ROMAN HUTS**

Software Engineer who loves climbing mountains, riding motorcycles, and continuously improving at learning.

github.com/rhuts

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romanhuts.com

## **EXPERIENCE**

### Software Development Engineer 2

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2020 - 2022

Markham, ON

- Implemented hardware accelerated features (OpenCL / DX11 / Vulkan / C++) for Pre-Analysis and Pre-Processing components of the Advanced Media Framework (AMF) SDK shipped with every AMD GPU driver. GPUOpen/AMF (GitHub)
- Responsible for resolving and responding to external developer issues (C++) as well as preparing releases for the AMF SDK.
- Interviewed over 20 candidates and screened 100s of resumes for Co-op positions.
- Mentored and helped assign tasks to multiple Co-op students.
- Speaker at 'Former Co-op' eSpeakers Panel & Q&A for new Co-op orientation week in front of over 170 new students.

#### Software Developer Intern

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2018 - 2019

🤰 Markham, ON

- Fixed over 20 bugs for AMF and LiquidVR SDKs such as eGPU support for LVR samples (C++).
- Responsible for training and assigning tasks to short-term and long-term Co-ops.
- Implemented game engine integrations (C++)such as FreeSync2 HDR into Unreal Engine 4.
- Added new features to RoomAcousticQT sample (C++) demonstrating Real Time Queues for the True Audio Next library. GPUOpen/TAN (GitHub)
- Responsible for Jenkins CI/CD automation server (Python / Bash / Groovy).

#### IT HelpDesk Intern

## IMAX

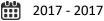
2017 - 2018

Mississauga, ON

- Developed tool using PowerShell and XAML to automate Active Directory setup for new hires.
- Improved Windows upgrade project tracking by writing SQL queries to accurately report progress.
- Improved software deployment by creating process flow diagram though team collaboration and end-user input.

### Teaching Assistant





Mississauga, ON

- CSC108H5F Introduction to Programming (Professor Andrew Petersen, Professor Vincent Maccio, Instructor Samir Hamdi).
- Invigilated and marked midterm examinations, held reoccurring tutorial sessions for groups of 30 students.

### **EDUCATION**

### Honors Bachelor of Science with Distinction

#### **University of Toronto, Canada**

Computer Science Specialist + Internship 2015 - 2020 \* / 4.0 cGPA

### SKILLS

#### **Programming**

Python Solidity C++ Bash SQL **HTML CSS** JavaScript

#### **Computer Graphics**

OpenCL DirectX11 Vulkan

#### Tools

Visual Studio 2022 VS Code Git

Perforce JIRA Confluence GPUView

#### **Operating Systems**

Linux Windows

#### **Awards**

- Spotlight award for role in version control system migration (AMD 2021).
- Recognized for outstanding Co-op Mentorship (AMD 2021).
- Submitted to Innovation Showcase for Shader Optimization Benchmark Tool (AMD 2021).

#### **Business Projects**

Licensing Lead Generation for Live and General Music Use (DCSIL Program)

- · Lead team development of cross platform app for generating non-confrontational leads.
- Pitched to multiple leaders in the music licensing industry space such as BMAT USA and Dataclef (subsidiary of SOCAN). MVP Tech Demo

#### Phone Provisioning Automation Tool

- Developed phone provisioning tool for IMAX, in collaboration with Masergy's REST API based user provisioning API beta program.
- In use at Los Angeles and Mississauga offices.