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### EDUCATION

### **UC Berkeley**

MEng in Electrical Engineering and May 2020 - Aug 2021 | Markham, ON, Canada Computer Science Aug 2022 - May 2023 Berkeley, CA

#### **University of Toronto**

BS in Computer Science and Data Science Sept 2017 - Jun 2022 Toronto, ON, Canada

### SKILLS

cGPA: 3.91 / 4.0

#### Programming Languages

Python • C++/C • JavaScript • Java • Go • Jan 2022 - Aug 22 | Toronto, ON, Canada R • MATLAB

#### Computer Vision and Graphics

PyTorch • CUDA • OpenCV • NumPy • OpenGL/WebGL •Unity • Blender

#### Web Full Stack

React • TypeScript • NodeJS • MySQL• MongoDB

#### Softwares

AWS • Linux • Bash • Docker • Git • LATEX

### TFACHING

#### Teaching Assistant, U of Toronto

Computer Graphics | Winter 2022 Intro. Machine Learning | Fall 2021 Physics-based Animations | Fall 2021

## AWARDS

#### UC Berkeley MEng Fung Excellence Scholarship

Jun. 2022 | Berkeley, CA

Dr. James A. & Connie P. Dickson Scholarship In Science & Mathematics Oct. 2020 | Toronto, ON, Canada

University College Special Admission **Scholarships** 

Sept. 2017 | Toronto, ON, Canada

### **EXPERIENCE**

# Huawei Canada | Software Engineer, Intern

- Worked on computer vision and multimedia team. Worked on Developing and integrating video understanding methods for cloud based video editing applications.
- Worked on the deployment of video retrieval algorithms for mobile devices.
- Assisting research on hand tracking and human action recognition.

# **Vector Institute** | Research Intern

Aug 2021 - May 2022 | Toronto, ON, Canada

- Supervised by Prof. Animesh Garg under PAIR Lab. Researched on novel methods for robots to resemble objects with 3D sensors.
- Worked on simulation environments and 3D object data generations.

## SysNet, University of Toronto | Research Intern

- · Supervised by Prof. Nandita Vijaykumar. Researched on a novel method for efficient and editable 3D scene reconstruction and view synthesis.
- Worked on CUDA accelerations and operators for GPU based point. aggregations and differentiable physics based volume rendering.

### **Easy Group Inc.** | Full Stack Software Developer Apr 2019 - May 2020 | Toronto, ON, Canada

- Managed the web services, CRM systems, and online shops serving for over 240,000 customers.
- Led the development of automatic data pipeline for customer behavior analysis and product recommendations.

### **PROJECTS**

## **Mverse** | Software Developer

Jan 2021 - Jun 21 | Toronto, ON, Canada

Worked as a core contributor to mverse, an R package for multiverse analysis. The package extends R package multiverse with more friendly interfaces for analysts.

## iVis for Single Cell RNA-seq | Software Developer

Sept 2019 - Apr 20 | Toronto, ON, Canada

Designed and developed the interactive application for processing and visualizing high-dimensional single cell RNA-seq data. Implemented GPU acceleration for single cell analysis algorithms and visualizations.

## **PUBLICATIONS**

- [1] CHEN, Y., LI, H., TURPIN, D., JACOBSON, A., AND GARG, A. Neural shape mating: Self-supervised object assembly with adversarial shape priors. In *Proceedings* of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (2022), pp. 12724-12733.
- [2] RAO, V. R., KHALIL, M. I., LI, H., DAI, P., AND LU, J. Decompose the sounds and pixels, recompose the events. Proceedings of the AAAI Conference on Artificial Intelligence 36, 2 (Jun. 2022), 2144-2152.
- [3] RAO, V. R., KHALIL, M. I., LI, H., DAI, P., AND LU, J. Dual perspective network for audio visual event localization. In European Conference on Computer Vision (ECCV) (October 2022).