

# HAODA LI

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## Education

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### M.Eng. in Electrical Engineering and Computer Science

UNIVERSITY OF CALIFORNIA, BERKELEY

August 2022 – May 2023

Berkeley, CA.

### B.Sc. in Computer Science & Data Science

UNIVERSITY OF TORONTO, ST. GEORGE CAMPUS (GPA 3.91/4.00)

September 2017 – June 2022

Toronto, ON, Canada

## Experiences

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### Research Intern

VECTOR INSTITUTE

August 2021 – August 2022

Toronto, ON, Canada

- Researched on and built the simulation platform for robots to resemble objects with 3D sensors using C++.
- Developed CUDA kernels for differentiable rendering acceleration and researched on novel methods for deep neural rendering using PyTorch.

### Software Engineer

HUAWEI CANADA

May 2020 – August 2021

Markham, ON, Canada

- Prototyped cloud-based video editing applications using PyTorch, FastAPI, and React. The application enabled users to perform AI-assisted assets selection, auto-focus, auto-cropping.
- Automated backend pipeline for data processing, model training, and cloud deployment for over 1TB/week customer video data using Docker and PostgreSQL.
- Used OpenCV and C++ to create test systems for hand tracking and action recognition.

### Full Stack Software Developer

EASY GROUP INC.

April 2019 – April 2020

Toronto, ON, Canada

- Manage the web services and online shops, the system served for over 240,000 customers.
- Designed and implemented the client information management system using MySQL, Django, and React
- Led the development of data pipeline for customer behavior analysis and product recommendations using Pandas and Scikit-learn, and the deployment on AWS.

## Projects

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### iVis for Single Cell RNA-seq

UNIVERSITY HEALTH NETWORK

September 2019 – April 2020

Toronto, ON, Canada

- Designed and created the interactive application for processing and visualizing high-dimensional single cell RNA-seq data.

### Mverse

UNIVERSITY OF TORONTO, DEPT. OF STATISTICS

January 2020 – June 2021

Toronto, ON, Canada

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

## Skills

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**Programming Languages:** Python, C++/C, C#, Java, JS, R, MATLAB

**Full Stack Development:** ReactJS, Typescript, JS/HTML/CSS, AWS, MongoDB, MySQL

**Computer Vision and Graphics:** PyTorch, CUDA, OpenGL, WebGL, Unity, Blender

**Softwares and Services:** Docker, Oracle APEX, Git, Unit/Linux OS