

Kenan Deng

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EDUCATION

Carnegie Mellon University - School of Computer Science

Master of Science in Computer Vision

Pittsburgh, PA

December 2019

University of Toronto - St. George campus

Honours Bachelor of Science in Computer Science | cGPA 3.99/4.0

Toronto, Canada

June 2018

Selected courses: Computer Vision, Image Understanding, Machine Learning, Computational Geometry

WORK EXPERIENCE

Modiface Inc.

Toronto, Canada

Software Engineering Internship

May 2016 - April 2017

- Developed multiple augmented reality apps which do virtual makeup with mobile camera, and later successfully launched into App Store
- Researched on a new technique that improved live rendering effects under different lighting conditions
- Improved existing augmented reality effects and came up with new ways of rendering for different types of makeup, resulting in a more realistic rendering on face
- Provided technical support to server-side application, resulting in overall improvement and more features of back-end content management system
- Built an augmented reality prototype for in-house demo

RESEARCH PROJECT

Research on Episcan3D

Supervised by Prof. Kyros Kutulakos, dgp lab, University of Toronto

September 2016 - April 2017

- Researched on imaging methods in epipolar geometry and its various applications using this computational imaging research prototype
- Experienced on stereo calibration, working with timing control of rolling shutter cameras, laser projectors, 3d reconstruction using structured light
- Developed an automated way to calibrate the episcan system that reduces calibration time
- Provided maintenance to the episcan system and added modifications to the system

Software Defined Networking Controller Application

Supervised by Prof. Yashar Ganjali, Research project, University of Toronto

January 2016 - April 2016

- Developed a router and a load balancer based on a distributed SDN controller called Beehive network controller using GoLang in group of two people
- Designed a multi-layer decentralized router/loadbalancer hierarchy utilizing beehive structure that solves running centralized routing program on a distributed system

SKILLS

Programming: Python, C, C++, Objective-C, Java, Javascript, SQL

Tools: Git, Matlab, OpenCV, TensorFlow, OpenGL, CUDA, Django, Node.js, Unity3D, Xcode

Computing Environment: Windows, Linux, macOS, Arduino

HONORS

Simeon Heman Janes Silver Medal

June 2018

Dean's List

earned every academic year since 2013

U Of T Scholar

earned every academic year since 2013

Lawrence And Sharen Ho International Scholarship

earned every academic year since 2013