SKYLAR LIANG UBC Computer Engineering

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Skills & Professional Development

Technical Skills

- Python, Java, C++, C, JavaScript
- Android Studio, NDK
- TensorFlow, Keras, OpenCV, PIL
- Software testing
- Node.js
- Tableau

- Git, Github
- MongoDB, MySQL, Firebase
- AWS (EC2, RDS), GCP
- Agile/Scrum
- Linux, Windows
- Arduino, Raspberry Pi

Courses/Training Highlights

- CPEN 422: Software Testing
- CPEN 400A: Modern Web App
- CPSC 322: Introduction to Artificial Intelligence
- CPEN 321: Software Engineering

- Udemy: Deep Learning Computer Vision CNN, OpenCV, YOLO & GANs
- ELEC 331: Computer Networking
- CPSC 304: Relational Database

Experience

Academic Tutor – Ningchuang Collage at Ningbo University, Ningbo, China   Sept 2020 – current
- Instructs university level physics and computer science courses

AI IoT Solution Intern – NXP Semiconductor, Shanghai, China   Oct 2019 – July 2020
- Worked in the AI IoT Solution team with a focus on computer vision and embedded system
- Used python, C and C++ under a Linux environment
- Trained deep learning networks (CNN) in python
- Helped to develop an Android app with Java and C, C++ (NDK)
- Collected and processed model training and testing data
- Helped to translate Chinese documentations into English at a professional level
- Can communicate with supervisor and coworkers in English at a professional level

Teaching Assistant – the University of British Columbia, Vancouver, BC   Jan– Sept 2019
- Teaching assistant for *Basics of Computer System* and *Introduction to Computation in Engineering Design*
- Assisted the in-class teaching and marking of more than 300 students
- Held weekly office hours and lab sessions

Computer Science Tutor – K&D Education Institute, Vancouver, BC   Jan 2018 – Jan 2019
- Tutored university level courses in C and Java

Volunteer Engineer – WindAid Institute, Trujillo, Peru   July - Aug 2018

- Collaborated with volunteers from all over the world built and installed two wind turbines for a Peruvian village.

Education

The University of British Columbia – Vancouver, BC

Undergraduate in Computer engineering, expected graduation May 2022

- Dean's Honor List (2018)
- Scholarships: Faculty of Applied Science International Student Scholarship (2018)
- Trek Scholarship (2017)

Projects

Hyperface Gender Classifier –recognize people's gender with CNN   Oct 2019
- Python, TensorFlow, Keras, OpenCV, CNN
- Based on the Hyperface model proposed by Ranjan, Patel and Challappa(2016)

Personal Websites – built and maintaining personal websites for myself and friends   April 2019
- HTML, CSS, JavaScript, web design

Memory Frame - an electronic photo frame with voice control and an Android app   Mar 2019
- Android, Firebase, Alexa, Raspberry Pi, Python
- Developed backend for communication between firebase and user ends (Java and Python)

Store Way-finder - help specialty store customers to locate themselves and find items   Jan – Feb 2019
- Raspberry Pi, Python, AWS, MySQL
- Back-end developer on database and Bluetooth communication using python
- Managed cloud database on AWS