Andi Xiong Computer Engineering Student

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EDUCATION

University of British Columbia   **Expected May, 2022**
Bachelor of Applied Science – Computer Engineering
Completed 6/8 academic terms
Co-op: Completed 1/5 work terms; Available 4 or 8 months beginning May 2020

COOP WORK EXPERIENCE

Canada Youth Robotics Club, Vancouver, BC   **May, 2019 – August, 2018**
Programming and Robotics Instructor
- Delivered interactive lessons on programming and robotics to teach students principles of building robust hardware and software
- Coached and led student robotics team to win 2nd place in RoboRAVE North America's line-following challenge
- Acquired curriculum development skills by creating STEM lesson plans aimed to inspire students' curiosity and enthusiasm for science
- Gained communication and organization skills through monitoring students' progress and periodically report to supervisor and parents to facilitate students' learning

TECHNICAL PROJECTS

Anonymous Chatting App (UBC)   **September, 2019 – November, 2019**
- Developed an Android app enabling users to chat anonymously with people within certain proximity on topics of interest such as sports events or food suggestion
- Devised a matching algorithm to recommend nearby chatrooms based on user's history and preference so users can find chatrooms more easily
- Delegated tasks to team members following agile development framework to increase communication and collaboration

Braille Printer (UBC)   **March, 2019**
- Designed and built a braille printer (using Raspberry Pi) to help make communication more accessible to visually impaired people
- Explored the concept *Internet of Things* through building a website so users can submit print jobs which will be queued on the printer automatically (Flask, HTML, JavaScript)
- Established mutual communication where an visually impaired individual can enter braille through a keypad, and words from a braille illiterate individual can be translated to braille characters

Sentiment Analysis of Text Documents (UBC)   **September, 2018**
- Utilized Microsoft's Azure Cognitive Services to write a Java program for calculating sentiment of a given text document
- Originated an algorithm to group similar documents by word choice and sentiment similarity, enabling prediction of author given a large set of document

ENGINEERING STUDENT TEAM

UBC Launch Pad   **January, 2019 – Present**
iOS Developer

- Worked in team of eight to build an iOS app for Access Youth (a non-profit organization) which facilitates youth outreach and empowerment, helping thousands of youth in the tri-cities area
- Implemented counselling bus tracking service on staff's side (iOS) for broadcasting driver's location which allows youth in need to accurately locate the bus and estimate time of arrival
- Adopted trunk-based development model including continuous integration and delivery to better satisfy stakeholders' requirements

OTHER WORK EXPERIENCE

UBC Department of Mathematics   **September, 2019 – Present**
Undergraduate Teaching Assistant

- Helped students become better learners at math and develop critical thinking skills by asking thought-provoking questions and giving hints
- Grouped and returned thousands of student assignments to increase efficiency and better protect student's privacy

VOLUNTEER EXPERIENCE

Orchard Commons Musical Production Company, Vancouver, BC   **November, 2017 – March, 2018**
Band Coordinator / Keyboard

- Recruited and managed pit band of five, communicated with band members and constructed a sense of community
- Understood every instrument part and gave constructive feedback on musicality and performance
- Recommended and handled purchase of music stands to benefit future productions
- Performance sold out for all three nights

AWARDS

Rockwell Automation Canada Scholarship in Electrical and Computer Engineering   2018
UBC Engineering Entrance Scholarship   2017
UBC Tuum Est Award   2017

PROFESSIONAL AFFILIATIONS

Institute of Electrical and Electronics Engineers   2018 – Present

INTERESTS & ACTIVITIES

- Interests: theatre, films, yoga, hiking, swimming, travelling
- Hobbies: singing, playing piano, reading