

EDUCATION

- **Queen's University** Kingston, Ontario
Bachelor of Applied Science, Engineering and Mathematics Dual Degree Expected graduation: 2021 June

RESEARCH EXPERIENCE

- **Queen's University CS Department** Kingston, ON
Software Engineering Researcher Summer 2019
 - Investigated mobile development documentation with **Prof. Ying Zou** and **Prof. Ahmed E. Hassan**
 - Built 6 mixed effect models to determine release pattern across 2,232 open source apps
 - Built a K-means clustering model to group 69,851 app updates of 2,232 apps into 6 patterns based on release note behavior (e.g., length, delta, and sentiment)
 - In-submission EMSE journal paper as first author
- **Queen's University ECE Department** Kingston, ON
Software Engineering Researcher May 2018 - May 2019
 - Investigated requirements engineering with **Prof. Daniel Alencar da Costa** and **Prof. Ying Zou**
 - Applied 3 reinforcement learning techniques to model code repository behavior from 133 GitHub projects
 - Customized an NLP algorithm to establish links between test documentation and source code
 - Accepted peer-reviewed conference paper at MSR 2019 as first author

WORK EXPERIENCE

- **AMD** Markham, ON
Systems Engineer (8-month internship) Sept 2019 - Present
 - Developing GPU driver software on the Display Abstraction Layer team
 - Specialized in 4K scaling options and High Dynamic Range Imaging (HDR) support
 - Kernel mode debugging on Windows OS using WinDBG and C++
- **Queen's Technology and Media Association** Kingston, ON
Android Developer Sept 2018 - May 2019
 - Built an Android AR application that places rendered furniture in rooms
 - App (LucyAR) published on the Google Play Store on March 18th 2019
- **GF Securities** Guangzhou, China
Investment Banking Analyst (4-month internship) Summer 2017
 - Advised initial public offering (IPO) transitions for clients of the industrial group
 - Researched client investments using various financial models
 - Monitored client finances through auditing balance sheets

PUBLICATIONS

- Predicting Co-Changes between Functionality Specifications and Source Code in Behavior Driven Development
Aidan Z.H. Yang, Daniel Alencar da Costa, Ying Zou
The 16th International Conference on Mining Software Repositories (acceptance rate = 25%)

TEACHING EXPERIENCE

- **Queen's University** Kingston, ON
Teaching Assistant Winter 2018
 - Held weekly tutorials and proctored biweekly quizzes for *Data Structures and Algorithms*
 - Held one-on-one tutorials and raised 3 students' averages by over 10%
- **Mount Royal University** Calgary, AB
Piano Instructor 2015 - 2016
 - Employed by Dr. Peter Jancewicz to tutor 4 beginner level students for 2 summers

HACKS

- **QHacks 2018:** Jarvis Music - Web application for users to find a Youtube song by speaking lyrics.
Process: Google Cloud speech to text API → keywords extraction with Vector Space Model → Semantics analysis with Doc2Vec → Genius Lyrics API → Youtube Data API

AWARDS

- SIGSOFT CAPS Student Travel Award for ICSE 2019
- Alberta Alexander Rutherford Scholarship (\$2000 per semester for first two years of university)
- 1 of 9 finalists for Alberta Pianofest Society 2016 (international award)
- 1st place Alberta Kiwanis Festival 2015 (provincial award)

PROGRAMMING SKILLS

- **Languages:** Python, R, SQL, C/C++
- **Technologies:** Python PANDAS and Numpy, R dplyr and ggplot2, PostgreSQL, WinDBG debugging