AIDAN YANG

a.yang@queensu.ca | https://aidanby.github.io | 403-975-9757

Citizenship: Canadian

EDUCATION

Bachelor of Applied Science, Engineering and Mathematics Dual Degree, Queen's University

2016 - Present

- Specialization in Electrical and Computer Engineering
- One school year of professional internship (2019 Sept 2020 May)
- Expected graduation: 2021 June

RESEARCH EXPERIENCE

Undergraduate Researcher, Queen's University, Kingston, Canada

2019 Summer

- Investigated mobile development documentation artifacts with Prof. Ying Zou and Prof. Ahmed E. Hassan
- Built 6 machine learning models to determine developer pattern across 2,232 open source apps
- Clustered 69,851 app updates of 2,232 apps into 6 patterns based on developer behavior

Undergraduate Researcher, Queen's University, Kingston, Canada

2018 May - 2019 May

- Investigated Behavior Driven Development with Prof. Daniel Alencar da Costa and Prof. Ying Zou
- Applied 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 paper at MSR 2019

INDUSTRY EXPERIENCE

Embedded Systems Developer, Advanced Micro Devices (AMD), Markham, Canada

2019 Sept - Present

- Developing graphics card driver software on the Display Abstraction Layer team
- Kernel mode debugging on Windows OS using WinDBG
- Low level programming of hardware devices using C and C++

Investment Banking Analyst, GF Securities, Guangzhou, China

2017 Summer

- Advised initial public offering (IPO) transitions for clients of the industrial group
- Researched client investments using various financial models
- Monitored client finances through auditing financial statements

TEACHING EXPERIENCE

Teaching Assistant, Queen's ECE Department, Kingston, ON

2018 Winter

- Assisted Dr. Ying Zou by holding tutorials and proctoring quizzes for ELEC278 (Data Structures and Algorithms)
- Performed weekly lab duties and guide 40 second year students per week write C programs
- Held one-on-one tutorials for struggling students and raised 3 students averages by over 10%

Private Tutor, Queen's University, Kingston, ON

2018 Winter

- Tutored 2 second year students Introduction to Real Analysis
- Tutored 1 second year student Objected Oriented Design
- Tutored 1 first year student Introduction to Computer Programming

Piano Instructor, Mount Royal University, Calgary, AB

2015-2016

Employed by Dr. Peter Jancewicz to tutor 4 beginner level students for 2 summers

VOLUNTEERING EXPERIENCE

Software Developer, Queen's Technology and Media Association, Kingston, Canada

2018 Winter

Built an Android AR application that uses computer vision to scan any room and furniture

Pianist, Fountains of Mission Retirement Residence, Calgary, Canada

2014-2016

Lead 13 high school students to perform music at the local senior home to the elderly every week

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%)

AWARDS

- 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)
- 4th place piano solo performance at Canadian Music Competition 2014 (national award)

LANGUAGES

- Programming Languages: Python, R, SQL, C++, C, Java
- Native proficiency with Mandarin and English
- Professional working proficiency with Cantonese, limited working proficiency with French and Spanish