RICHARD TIAN Computer Engineering Student

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SKILLS

Languages:	Java, Python, C, C++, HTML, CSS, JavaScript, JSON, XML, Verilog, ARM Assembly, X86 Assembly
Software:	Eclipse, Android Studio, Atom, Vim, Command Line, Git
OS:	Linux Operating System, Windows Operating System
Microcontrollers:	Raspberry Pi, Arduino
Equipment:	Oscilloscope, Multimeter, Signal Generator, Soldering Iron

EDUCATION

University of British Columbia   Expected Graduation: December, 2022

Bachelor of Applied Science, Computer Engineering

- Dean's Honour List standing
- Courses: Software Construction, Algorithms and Data Structures, Microcomputers, Operating Systems, Digital Systems Design, Circuit Analysis

PROJECTS

Vancouver Translink Bus Texting App *Java, XML*   July, 2018 - August, 2018

- Constructed a dynamic Android app that quickly checks bus arrival times at a stop
- Utilized a SQL database to store user data

Personal Profile - richardyjtian.github.io *HTML, CSS*   July, 2018 - August, 2018

- Developed a website to display projects and skills
- Explored graphic design in creating an original layout

Smart Locker *Python, Java, XML, HTML, CSS, JavaScript*   March, 2018 - April, 2018

- Designed an account based, smart locker system, with a team of six
- Implemented NFC communication between a Raspberry Pi and an Android app
- Composed a touchscreen user interface using guizero

Autonomous Robot *C++*   February, 2018 - March, 2018

- Programmed an Arduino robot to perform self-driving, follow a path, and write words
- Achieved precise motion through real time feedback from various sensors

EXPERIENCE

Private Tutor   June, 2015 - September, 2017

Self-employed

- Tutored high school level Math, Chemistry, Physics, and English

Richmond Green Ambassadors Team Leader   September, 2012 - June, 2016

City of Richmond

- Led a team of ten in facilitating and regulating citywide events
- Annually co-hosted the REaDY summit, a youth sustainability conference

Zero Waste Leadership Clinic Co-Host   August, 2014 - February, 2015

Metro Vancouver

- Co-hosted a sustainability leadership event exploring the impacts of waste
- Promoted waste reduction awareness among two dozen youth