Victor Xiong

http://v-xiong.github.io/

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Education

- **University of British Columbia** — Vancouver, BC
  Bachelor of Applied Science in Computer Engineering; GPA: 89% avg. — *Sept. 2016 – May 2021 (Expected Grad.)*

Technical Skills

- **Frameworks and Libraries**: AngularJS, ASP.NET, Django, JQuery, ReactJS, Selenium
- **Languages and Format**: Java, C#, C, C++, Python, Typescript/Javascript, SQL, HTML/CSS/JSON
- **Development Environments**: Visual Studio, Linux, Git/SVN, Android Studio, Eclipse, MULTI IDE, CMake

Work Experience

- **UBC Electrical and Computer Engineering Department** — Vancouver, BC
  Undergraduate Teaching Assistant - CPEN 331 Operating Systems — *Sep. 2020 - Dec. 2020*
- **Amazon** — Vancouver, BC
  Software Development Engineer Intern — *May 2020 - Aug. 2020*
- **Intel Corporation** — Vancouver, BC
  Firmware Engineer Co-op — *Jan. 2019 - Aug. 2019*
  - **Pagemap Translation**: Designed algorithms based on provided page map to implement translations between logical and physical page addresses for next generation QLC NAND flash memory
  - **Performance**: Coordinated with NAND team to implement a feature in firmware to decrease the trigger rate of certain read recovery instances by a **factor of ~1000**, thus increasing the I/O performance of future SSD products
  - **Research**: Worked with ASIC team and firmware team members to gather data and conduct research to find a more intelligent algorithm for performing error read correction and recovery in firmware
  - **Continuous Integration**: Coordinated with the validation team to add functionality in firmware and Intel's internal SSD python interpreter to assist in the development of tests for continuous integration
  - **Modularization**: Took ownership of modularizing several modules to help the transition to a CMake build system
- **Paragon Testing Enterprises** — Vancouver, BC
  Junior Software Developer / QA Intern — *May 2018 - Dec. 2018*
  - **API Development**: Developed API and service layers using Typescript, Microsoft C# and ASP.net to query data in a relational database and display information to users
  - **Scripting**: Developed test cases, scenarios and automated scripts with Specflow and Selenium to verify multiple workflows of web apps, increase regression testing efficiency, and reduce the manual testing workload
  - **Collaboration**: Worked in a team environment with senior developers to debug production issues, and design and implement software solutions to maintain web-based instructional products and tests
  - **Mentorship**: Provided direction to other Co-ops by explaining application workflows and debugging issues

Projects

- **NHL Android Application**
  Personal Project — *Apr. 2018 - Present*
  - **API Querying**: Used Android's Volley library to query the official NHL API and parse JSON objects
  - **Dynamic UI**: Designed a graphical user interface for the application using XML and Android Studio to present API data in a user-friendly format, while also allowing for dynamic adjustment for different screen resolutions
- **Django Framework Based Web Application**
  University of British Columbia Class Project (Group Project) — *Mar. 2018*
  - **Web App.**: Created a web app. to update users on the environmental status of the EECE building at UBC
  - **Automatic updates**: Utilized Ajax and JQuery to perform page updates for a heat map of data points

Recognition and Interests

- **Awards**: Trek Excellence Scholarship (2020), Martin Sikes Memorial Service Award in Electrical and Computer Engineering (2019), MacKenzie Swan Memorial Scholarship (2018), 99th Percentile SAT score: 2330/2400 (2015)
- **Activities**: Piano, Soccer, Hiking, Skiing, Basketball, Hockey, Foosball, Badminton, Pool