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

- **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 for the modularization of several modules by completing them ahead of schedule to aid in the transition to a CMake build system and general modularity effort for the code base
- **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
  - **Invoicing**: Implemented an invoicing system for international payments and billing of business accounts
  - **Voucher Codes**: Completed a system used for generating product keys for the redemption of online products
  - **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**: Developed an android application to use Androids Volley library and query the NHL API for relevant JSON packages to display the standings, scores and game highlights of the NHL to users
  - **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
  - **Database Models**: Used Django models to fetch information from a database to display on a front end consisting of view templates and present to users in a graphically intuitive and interactive web interface

Recognition and Interests

- **Awards**: Martin Sikes Memorial Service Award in Electrical and Computer Engineering (2019), MacKenzie Swan Memorial Scholarship (2018), BC Achievement Scholarship (2016), 99th Percentile SAT score: 2330/2400 (2015)
- **Activities**: Piano, Soccer, Hiking, Skiing, Basketball, Hockey, Foosball, Badminton, Pool