Vicky Nguyen

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Education

Bachelor of Computer Science - Honours　　　　　　　　　　　　　　　　　　　*8.5/9 GPA*
- Expected graduation date April 2023. University of Victoria.

Relevant Courses
- Algorithms and Data Structures, Database Systems, Operating System, Computer Networking, Massive Datasets, Programming Languages, Compiler Construction, Data Mining, Randomized Algorithms, Music Information Retrieval, Advanced Programming Techniques for Robust Efficient Computing, Data Management on Modern Computer Architectures

Activities
- President of the [UVic Programming Club](#) (Jan 2021 - now)
- Took part in the ICPC (International Collegiate Programming Contest) in 2019, 2021, and 2022 (ranked 20/62 teams in Pacific Northwest region).
- Currently ranked **top 3** in [UVic Kattis Ranklist](#).
- Currently doing an honours **research** project. The goal of this research is to find out if there is anything we can learn from StackOverflow regarding the programming languages.

Skills

Proficient: C++, Python, JavaScript, Java, SQL, Git, Unix/Linux
Experience & Technologies: C#, C, Scala, Spark, Haskell, Flask, Android Studio, etc.

Experience

University of Victoria - Teaching Assistant　　　　　　　　　*Jan 2022-Apr 2022/Victoria, BC Canada*
- Helped first and second year students with algorithm and data structures courses, programming courses (C, C++, Python, Java), web development course, and computer architecture course.
- Guided and assisted students in understanding theories, programming, debugging, and problem solving.

BlackBerry - Open Source Developer Intern　　　　　　　*Sep 2021-Dec 2021/Mississauga, ON Canada*
- Made sure the company was compliant with open source licences. Enabled analysts to do compliance scans by developing tools, scripts, and expanding capability of the existing tools mainly with Python and PostgreSQL.
- Optimized source code to reduce the execution time from approximately 10 hours to a few hours by using dynamic programming and concurrency.
- Designed and implemented database schema for analysts to verify their results. Also automated their tasks by writing a script to fill out information from the database, which reduced the amount of files analysts have to look at from several thousands to a few dozens.

Helm Operations - Full Stack Software Developer Intern　　　　*Jan 2020-Aug 2020/Victoria, BC Canada*
- Implemented new product features that increased productivity of members of work boat companies and fixed bugs in the production code. Used JavaScript, Knockout.js, HTML/CSS.
- Created APIs and API tests by using ASP.NET with SQL Server database and JavaScript.
- Created end-to-end tests for new features and APIs using Puppeteer which helped reduce QAs' workload.

Projects

UVic Spookathon ↗

Built a web app in 3 hours that creates a custom story based on the user's action choices. Won **1st Prize** in UVic Spookathon 2019. Built with Google Text-to-Speech, Javascript, and HTML/CSS.

An application to support information reception for the Deaf-Mute

A mobile app that translates speech to Ho Chi Minh Sign Language. Won **2nd National Prize** in Vietnam National Secondary Student Science and Engineering Fair (ViSEF) 2016-2017, a part of the [ISEF](#). Built with C#, .NET Framework, and SQLite.