

# Joshua Yellowley

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Personal Website: <https://Joshuayellowley.com>

## TECHNICAL SKILLS

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**Programming:** Java, Javascript, ReactJS, C, C++, Python, SystemVerilog, Assembly

**Software:** AutoCAD – Solidworks, MATLAB, DBAN, Windows OS, Mac OS, Github, JasperGold

## EDUCATION

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**University of British Columbia**  
**Bachelor of Applied Science - Computer Engineering**

*Expected Graduation April, 2023*

Co-op: Available for 4-8 months beginning January 2021  
Key Computer Engineering Courses:  
Principles of Software Construction, Data Structures and Algorithms

## TECHNICAL WORK EXPERIENCE

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**Intel Corporation of Canada, Vancouver, BC**  
**ASIC Verification Engineer**

**May 2020 – Present**

- Verified design requirements for unique code blocks to ensure design quality through detailed SystemVerilog assertions
- Implemented functionality for various unsupported registers within a python script that translates register description language into XML format by utilizing depth-first search to extract register information
- Lead weekly presentations while clearly communicating ideas and project activity to update teammates and receive constructive feedback

**Sauder School of Business, Vancouver, BC**  
**Audio/Visual Classroom Support Steward**

**September 2019 – May 2020**

- Undertook the quality assessment of company audio/visual services to preserve a stable work environment; performed appropriate optimizations and reported discrepancies
- Demonstrated technical software proficiency and problem-solving skills while responding to incident tickets and client audio/visual requests to ensure client satisfaction.

## TECHNICAL PROJECTS

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**Personal Portfolio Website, Personal Project**

**August 2020 - Present**

- Created a website using ReactJS to showcase my portfolio, allow access to recent projects and showcase proficiency with web development which can be found at "[joshuayellowley.com](https://joshuayellowley.com)"
- Utilized React Router to allow for easy flow between different subpages of my website with fluent and visually appealing transitions
- Created a dynamic Navigation Bar that uses React Hooks to update the webpage depending on window width to provide a means of navigating the site with a reduced window size

## TECHNICAL PROJECTS

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**Wikipedia Mediator Server**, University of British Columbia

**October 2019**

- Developed a Wikipedia mediator server that has a functional cache for holding recent search requests along with basic requests for recent searches and information about past requests.
- Optimized to accept queries defined from multiple clients simultaneously using multi-threading and ANTLR for handling complex requests.

**Hack:Now Online Hack-a-thon** Institute of Electrical and Electronics Engineers

**April 2020**

- Worked within a team to implement a web application using the Google App Engine that would allow potential shopping customers to access nearby shopping location stock information
- Developed Python scripts to populate a MongoDB database containing grocery store current stock and to receive specific search queries from the user interface and produce filtered results
- Implemented clear, actionable, and visually appealing ReactJS components to navigate the user interface upon customer input

**Graph Manipulation and Path Finding Project**, University of British Columbia.

**November 2019**

- Programmed with a partner the implementation of a graph of nodes, with operations to manipulate the graph and provide information such as the shortest path between nodes using Dijkstra's algorithm and computing the minimum spanning tree of a graph
- Utilized the above, to develop methods of traversing a graph to arrive at a target location with specific time restraints and limiting information. Computed different path-finding algorithms such as a depth-first search.

## OTHER WORK EXPERIENCE

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**Bailey Nelson**, West Vancouver, BC  
***Eyewear Stylist***

**July, 2019 – August, 2019**

- Delivered excellent customer service through providing an accurate and informative response to client questions, precise and correct company service operations, and courteous and considerate communication.
- Led store closing and opening operations leading to successful and fluent operation the next workday; followed company open/close procedure emphasizing time-efficiency while guaranteeing correctness.

**Museum of Anthropology**, Vancouver, BC  
***Information Technology Technician***

**June, 2017 – August, 2018**

- Worked part-time throughout the summer on IT support improving in troubleshooting desktop issues, installing software, recycling old hardware, setting up workstations, and providing end-user support.
- Developed strong skills in technical problem solving and workplace communication; implemented full-office software upgrades and workstation technology checks while establishing effective scheduling with co-workers.
- Managed the project of disposing of company hard drives; completed the proper desktop disassembly process and assured in the successful deletion of confidential company files and information.