**Kyle Huang**

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**EDUCATION**

**Bachelor of Science in Computer Science and Software** September 2020 - Expected, June 2024

**Engineering: Information Assurance and Cybersecurity**

* University of Washington Bothell ∙ School of STEM ∙ Bothell, WA
* Dean’s List 2020 – 2021
* Relevant Coursework: Software Engineering, Data Structures and Algorithms, Technical Writing for Computing Professionals, Information Assurance and Cybersecurity

**PROJECTS**

**Shortest Path Maze Solver** ∙ *C++* May 2022

* Created a program that reads in multiple maze files outputting the visual shortest paths
* Implemented depth-first search to calculate and custom backtracking-like algorithm to draw the path
* Resulted in all tests passed including mazes with empty clusters and rigid designs

**Bank** ∙*C++* February 2022

* Built a banking system using OOP principles
* Implemented create, login, and logout features ATM with the use of multiple accounts; deposit, withdraw, and view info for accounts

**FCC JavaScript projects** ∙*JS* December 2021

* Completed a collection of data structures & algorithms mini projects from freeCodeCamp
* Made a cash register, palindrome, roman numeral converter, ROT13 Caesar cipher, and telephone number validator
* This resulted in all test cases being passed by their automated checker

**Calculator** ∙*Java* December 2021

* Created a linear calculator desktop app executable made with JFrame GUI
* Supported addition, subtraction, division, multiplication, negatives, factorials, exponents, and modulus

**Portfolio Website** ∙*HTML, CSS, JS* September 2021

* Developed my portfolio responsive website: photo gallery, other published projects, and an automated contact email
* Used flex, grid, and JS DOM manipulation for responsive design and quick sort for files and links for project display and photo gallery

**Restaurant Order** ∙*Java* June 2021

* Made a visual text menu of foods and drinks to choose from for an order
* This resulted in a receipt output and an option to download into a text file

**Weather Web App** ∙*HTML, CSS, J*S August 2021

* Created a weather web app showing the current weather of a specific city
* Implemented an API to get the weather info and utilizes local storage to save the user’s location

**TECHNICAL SKILLS**

**Programming languages**: Java, C++, JavaScript, SQL

**Technologies**: Linux, Git, GitHub, VS Code, MySQL

**Web Design**: HTML, CSS

**CERTIFICATIONS**

JavaScript Algorithms and Data Structures ([freeCodeCamp](https://www.freecodecamp.org/certification/kylehuang041/javascript-algorithms-and-data-structures)) December 2021

Learning React.js ([LinkedIn Learning](https://www.linkedin.com/learning/certificates/df06d5b2967646fefd291bf970e0c9a4998788fbb0f26f9258b417220f97054c?trk=share_certificate)) December 2021

Responsive Web Design ([freeCodeCamp](https://www.freecodecamp.org/certification/kylehuang041/responsive-web-design)) September 2020