

# Kyle Huang

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## TECHNICAL SKILLS

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**Programming Languages:** JavaScript, C/C++, Java, Python, SQL, ARM Cortex-M3 Assembly

**Web Dev:** HTML, CSS, EJS, Node.js, Express.js, React.js, MySQL, SQLite, PostgreSQL

**Technologies:** VS Code, Git/GitHub, Linux, Azure App Service, Azure CosmosDB, AWS s3, AWS ec2, Docker, ThunderClient, Postman API, Trello, LucidChart, Figma, Keil uVision5, VisUAL, Logism

## EDUCATION

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**Bachelor of Science in Computer Science and Software Engineering**

*Expected, June 2024*

University of Washington Bothell · Bothell, WA

- Dean's List: 2020 – 2021, Spring 2022 · GPA: 3.66
- Relevant Courses: Data Structures and Algorithms, Computer Programming, Web Programming, Analysis and Design, Computer Organization and Hardware, Network Design and Programming, Cloud Computing, Database Systems, Operating Systems, Introduction to Artificial Intelligence (Spring)

## TECHNICAL EXPERIENCE

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**Fullstack Software Engineer Intern** (Capstone Project at UWB)

*January 2024 – June 2024*

Lijie Cleaning LLC, Bellevue, WA

- Collaborated with a partner to create a website that offers cleaning services.
- Utilized a tech stack including React with Vite, Express, Node, PostgreSQL, AWS EC2, Figma, and Docker for robust and efficient development.
- Designed API with documentation, database schema, and server-side using MVC architectural pattern for structure and scalability.
- Facilitated meetings with an advisor, planned schedule and tasks using Trello, and used Hybrid SDLC for efficient project execution and management.

## TECHNICAL PROJECTS

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**Multithreaded Sudoku Solver Program · C/C++**

*January 2023*

- Built a sudoku solver using threads to validate and solve puzzles of dynamic size.
- Implemented concurrent validation using threads distributed across each row, column, and box.
- Demonstrated correct puzzles with validation and completing using backtracking to solve.

**Cloud App · HTML, CSS, JS, EJS, NodeJS, Express, API, Blob Storage, CosmosDB, App Service**

*March 2023*

- Coded a fullstack app on Azure using MVC design for managing and formatting data from an API.
- Hosted a webpage on Azure; integrated cloud storage with Node and Express; and EJS for dynamicity.
- Created a robust cloud application that allows it to load, delete, and query data from APIs through UI.

**C Standard Lib Functions in Assembly · ARM Cortex-M3, Keil uVision5**

*January 2023*

- Written 4 functions of C standard library using thumb-2 instructions with ARM Cortex-M3.
- Applied buddy system algorithm for heap memory partitioning and stacks and registers to solve.
- Achieved 100% score passing all test cases, commenting, organizing of code.

**Reliable File Transfer Program · C/C++**

*December 2022*

- Programmed a TCP-like TFTP program that reads and writes using UDP functions.
- Completed with handshakes and sending chunks of text data using buffers sending on sockets.
- Tested and debugged file transfer of client and server completely and accurately.

**Shortest Path Maze Solver Program · C/C++**

*May 2022*

- Created a program that can solve multiple complex maze files outputting the visual shortest paths.
- Implemented backtracking DFS and BFS to calculate and draw out the paths.
- Improved problem-solving skills by creating an accurate maze solver and passed 100% of the +6 tests.

**Calculator Desktop App · Java**

*December 2021*

- Crafted a calculator desktop app using GUI that solves complex expressions passing 100% of the tests.
- Calculated using postfix notation with order of precedence.
- Delivered a functional and user-friendly calculator for showcasing problem solving and Java skills.