

# WILLIAM (BILLY) HAO

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## WORK EXPERIENCE

### Sinclair Digital

#### Software Development Engineer I

2021 - Present

- Engineered a React application that interacts with a RESTful API to create, view, and administrate live video streams for around 200 local news stations.
- Maintains unit tests with Jest and React Testing Library, and end-to-end tests with Selenium to ensure product reliability.
- Improved code maintainability and readability by migrating from React's Context API to Jotai atoms.
- Manages a GitLab CI/CD deployment pipeline that deploys code to INT, QA, and Prod environments using AWS S3 buckets and CloudFront distributions.
- Collaborates on an Agile team that operates on a two week sprint with daily standups. This involves active creation of tickets, story point estimates, and taking the role of scrum master during ceremonies.

### University of Washington Coding Boot Camp

#### Teaching Assistant

2020 - 2021

- Taught languages, technologies, and concepts including HTML, CSS, JavaScript, jQuery, NodeJS, MySQL, MongoDB, Handlebars, MVC design pattern, working with and building APIs, React, GitHub and Heroku.
- Managed six-month classes of up to 60 students using Zoom and Slack to facilitate learning and communication.
- Guided students on how to think and research effectively as full stack engineers.

### Boxtribute

#### Frontend Developer

2020 - 2021

- Contributed to a React web application that helps distribute donated goods to refugees.
- Implemented unit and integration tests using React Testing Library and Jest.
- Collaborated remotely with developers across the globe in an Agile software development life cycle operating on a one month sprint.

## SKILLS

- Languages: JavaScript, Java, C, C++, Python, C#, HTML, CSS, SQL/T-SQL
- Libraries: React, React Testing Library, jQuery, Mongoose
- Others: Express, Jest, Spring Boot, AWS, Git, MongoDB, IndexedDB, MVC design pattern, responsive web design

## EDUCATION

### University of Washington Bothell

Master of Science in Computer Science and Software Engineering  
Graduate Certificate in Software Design and Development

2022 - 2025

2021 - 2022

### University of Washington Boot Camp

Full Stack Web Development Certificate

2020

### University of Washington Bothell

Bachelor of Arts in Business Administration

2017 - 2019