

# Hannah Guo

## Software Engineering



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## Education

[University of Waterloo | September 2020 - April 2025](#)

- Pursuing a Bachelor of Software Engineering

## Skills

**Languages:** JavaScript/jQuery and Node.js, Java, TypeScript, HTML/CSS, Python, Android, C++, C

**Frameworks and Libraries:** React, Angular, Express, Redux, Gatsby, NgRx

**Technologies:** Figma, Git Version Control, Google Cloud Platform (Firebase Databases and Authentication, Maps, Cloud Functions)

## Work Experience

[PlayStation, Server Software Engineering Intern | September 2022 - Present](#)

[Stripe, Software Engineering Intern | January 2022 - April 2022](#)

- Led the design, discussion, implementation, testing and documentation of a new user-facing Payment Methods API endpoint (written in **Java**) to be rolled out to 100% of Stripe users
- Worked with Stripe's service-oriented architecture and protocol buffer data format to build adapters, perform authorizations and communicate across services
- Wrote unit and integrations tests in **Java**, as well as synthetic tests in **TypeScript** for API behaviour, resulting in the discovery of several missing validations

[WFHomie, Full-Stack Developer | May 2021 - August 2021](#)

- Rebuilt event, gifting and classes pages for a start-up employee engagement platform using **React**, **Redux**, and **Firebase**, halving site load time and increasing the number of active clients by 350%
- Spearheaded creation of company **Figma** to improve UI/UX processes and streamlined accessibility in design
- Developed Slack integrations using **Node.js Cloud Functions** to simplify the event booking process, resulting in double the number of client reservation requests

## Projects

[Ranked Records | July 2021 - Present](#)

- Built a full-stack application using **Express** and **React** with the Spotify API to display all of an artist's songs ranked by popularity
- Used Spotify Authentication and the **Node.js** Spotify API to facilitate playlist creation and customization from over 200 users in the first week of launch, maintaining 50 active monthly users to date

[Idol Recognition | January 2022](#)

- Created an open source **Python** program that used a facial recognition library to identify K-pop idols from desktop images

[University of Waterloo Women in STEM Web Developer | January 2021 - September 2021](#)

- Implemented new initiative pages for the advocacy series and Instagram takeovers for the club's [website](#) using **Figma** and **HTML/CSS/JavaScript**
- Presented an Introduction to Web Development (**HTML/CSS**) MLH Localhost Workshop to over a dozen participants