

# Joshua Hoeflich

Evanston, IL · 847-513-1894

✉ [joshuaharry411@icloud.com](mailto:joshuaharry411@icloud.com) ·  [joshuaharry](https://github.com/joshuaharry)

 [josh-hoeflich](https://www.linkedin.com/in/josh-hoeflich) ·  [joshuaharry.com](https://joshuaharry.com)

## Work Experience

### Research Associate, Northwestern University, January 2022 - Present

- Investigates human-in-the-loop machine learning by deploying 3 prototype single-page applications designed to capture user responses to machine-generated document summarizations; built and designed websites with an Adobe-based team
- Improves PDF accessibility by building the interface to FormAlly, a form remediation tool to be utilized in a user study, in collaboration with teammates at the University of Maryland
- Became the 40th contributor on Definitely Typed by fixing 100 problems in 100 separate libraries through building automatic bug detection infrastructure

### Software Engineer I, Groundbreaker, December 2019 - August 2020

- Facilitated real-estate investments by contributing to the user interface of a purpose-built platform that managed millions of dollars worth of assets under management; deployed improvements to 200,000 line React codebase 2-3 times daily
- Managed website backend by maintaining over 200 serverless functions deployed to AWS written in Go and JavaScript through writing bug fixes and new features on an international team of four

## Projects

### Find Chicago News

- Built an automatic system for detecting newsworthy stories on social media by writing an algorithm to scrape 200 posts from Next Door and select the 10 most interesting ones; interdisciplinary collaboration with students in journalism and business

### AI Emails

- Wrote tool for emailing students struggling in course on AI and programming by analyzing feedback on over 2500 exercise submissions to autogenerate appropriate help messages

## Technologies

*Languages:* Fluent in TypeScript and JavaScript. Shipped and maintained systems written in Python and Go. Research experience with Racket (a LISP dialect) and Bash scripts

*Frameworks:* Extensive work with React and its ecosystem, including CSS-in-JS tools like styled-components and state management systems like Redux. Familiarity with Express and FastAPI

*Tools:* Comfortable with Git, Linux, Emacs, and Vim. Familiar with CICD pipelines using GitHub actions; brief experience with infrastructure as code systems like Pulumi

## Education

### MS Computer Science, Northwestern University, September 2020 - December 2021

- 4.00 GPA; coursework focused on programming languages, AI, and agile development