Joshua Hoeflich

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Work Experience

Research Associate, Northwestern University, January 2022 - Present

- Investigate human-in-the-loop machine learning by deploying 3 prototype single-page applications to capture user responses to machine-generated document summarization; built and designed websites with an Adobe-based team
- Improve PDF accessibility by building interface of FormA11y, a form remediation tool to be utilized in a user study, in collaboration with the University of Maryland
- 40th contributor on Definitely Typed, fixing 100 problems in 100 separate libraries by creating 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

Software Engineering Intern, Uptake, November 2019 - December 2019

- Contributed to product catalog by analyzing systems from over a dozen different teams and writing an interface with internal tools; agile workflow with sales engineering team and daily standups

Technologies

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

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, December 2021

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

BS Secondary Education, Northwestern University, June 2019

- 3.98 GPA, *summa cum laude*, dean's list every semester