

# Ian SooHoo

San Francisco Bay Area, open to working immediately

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## EDUCATION

### University of Illinois at Urbana-Champaign, Online

2023-2026 (expected)

Master of Computer Science (MCS)

GPA: 4.0

### San Jose State University, CA

2017- 2021

Bachelor of Science in Computer Science (BSCS)

GPA: 3.50

**Unique coursework:** Blockchain (JavaScript and Go), TensorFlow (on Anaconda), **Advanced Python**, Scala Functional Programming, Compiler Design, UCBx UI/UX Bootcamp (**Figma**, AdobeXD, Invision, **HTML**, **CSS**)

## WORK EXPERIENCE

### DocuSign // Software Development Engineer

JUNE 2022 - SEPTEMBER 2022

- Improved front-end user experience for 3 automation rules sections with both functional programming and polymorphism, for the 3<sup>rd</sup> party connections team.
- Developed with TypeScript, React.js, and NestJS, and coordinated with 5 design and language localization teams across the company.
- Strategized and created app connection info pages, using React, CSS, and Typescript, with OAuth2.0.
- Generated 20 unit tests for React components using Jest and React Testing Library, and contributed debugging details via internal Kazmon data queries.
- Documented team practices and sandbox environment setup to improve onboarding efficiency.

### CK-12 // Interactives Software Development Intern

MAY 2019 - JULY 2019

- Implemented **6 JavaScript web apps** for four open-source digital textbooks as part of the math interactives developer team.
- **Modernized user experience and design for pre-existing web apps** utilizing GeoGebra script.
- Strategized website improvements for the CEO, with 90% acceptance.
- Coauthored first standardized style guidelines document with 2 team members.

### Upin // UX Engineer Intern

JANUARY 2018 - OCTOBER 2018

- Designed wireframes, user flows, logos, and over 20 UI concepts in Sketch App and Illustrator.
- Managed 30+ assets and lead sprints through Trello and Zeplin for the UX team.

## SKILLS

LANGUAGES: **Python** • Java • **JavaScript (NodeJS)/TypeScript** • GoLang (familiar) • HTML/CSS/EJS/JS

OTHER: React.js • Figma • **DataFrames** • **NumPY** • **Matplotlib** • **BeautifulSoup** • MongoDB • AWS • \*nix

## HIGHLIGHTED PROJECTS

### Opcode Machine Learning for HMM-based Metamorphic Virus Detection

- Built an opcode file processor in **Python 3** that analyzes thousands of files in seconds and generates a Hidden Markov Model (neural network) compatible output file.
- **Architected an algorithm** to tally the 30 most frequent opcodes in the folder family and truncate the remaining pool while incorporating **NUMPY** and **Python dictionaries** to produce a clean output.

### API Endpoint Explorer

- A REST API endpoint explorer built in **ReactJS** with **FETCH** and **error catching**, which takes in a JavaScript object with fields, API call type, and other details.
- Displays server response using JSON.stringify() on a responsive page.
- Dynamically renders available fields and stores user input with HTML, JSX, and combined React Hooks.

### Pasttime – Post-COVID Activity Finder

- Led a team of 3 and built a **NodeJS** web app that pulls recreational activity information from MongoDB.
- Secured user information with the NPM Crypto library and created a virtual currency and wallet.
- Implemented a responsive front-end with EJS templating, Bootstrap, and **CSS Grid**.