Ian SooHoo

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EDUCATION

University of Illinois at Urbana-Champaign   **IN PROGRESS**
Master of Computer Science (MCS), Online   GPA: 4.0
San Jose State University, CA   **MAY 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)

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 3rd 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** • DataFrames • NumPY • Matplotlib • BeautifulSoup • MongoDB • **AWS** • *nix

HIGHLIGHTED PROJECTS

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**.

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.

Responsive Diagram web app

- Designed and engineered, a web app, with a team of 4, that aids in creating digital UML class diagrams.
- Utilized by students in Computer Science classes at the university.
- Wrote a responsive 8 component front-end with **JavaScript, HTML Canvas, and CSS.**