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-SEPT 2022**

- Improved rules logic front-end, utilizing **TypeScript, React,** and **NestJS,** coordinating with multiple design and language localization teams across the company.
- Strategized and implemented details modal for app connections info with **React, CSS,** and **Figma**.
- Generated 20 unit tests for various components using **Jest** and **React Testing Library,** and contributed debugging details via internal Kazmon data queries.
- Documented team practices and environment/sandbox setup to improve onboarding efficiency.

CK-12 // Interactives Software Development Intern   **SUMMER 2019**

- Implemented **6 interactive web apps** for 4 open-source online textbooks in **JavaScript**.
- Improved user experience for pre-existing web apps and generated website feedback for the CEO, with 90% acceptance.

Upin // UX Engineer Intern   **JAN 2018-OCT 2018**

- Applied SCRUM process for 2-week sprints at a startup company developing a social media app.
- Designed wireframes, user flows, logos, and over 20 UI concepts in Sketch App and Illustrator.
- Managed assets and sprints through Trello and Zeplin for the UX team.

SKILLS

LANGUAGES: Python • Java • **JavaScript (NodeJS)/TypeScript** • **GoLang** (familiar) • HTML/CSS/EJS
OTHER: ReactJS • DataFrames • NumPY • Matplotlib • BeautifulSoup • MongoDB • **AWS EC2 (Linux)**

HIGHLIGHTED PROJECTS

Pasttime – Post-COVID Activity Finder

- Lead a team of three and utilized **NodeJS** to build a webapp that pulls recreational activity information from **MongoDB**.
- Secured user information with **NPM Crypto** library and created a virtual currency.
- Utilized **EJS** templating, **Bootstrap** and **CSS Grid** to build a responsive front end

Opcode Machine Learning for HMM-based Metamorphic Virus Detection

- Developed opcode file processor in **Python 3** that analyzes **thousands of files in seconds** and generates a Hidden Markov Model (neural network) compatible output file.
- **Designed an algorithm** to tally the 30 most frequent opcodes in the folder family and truncate the remaining pool.
- Utilized **Python library NumPY, Python dictionaries**, and string manipulation to produce a clean output.

Responsive Diagram web app

- Designed and created, with a team of 4, a web app that aids students in creating UML class diagrams.
- Utilized **JavaScript, HTML Canvas, and CSS** to create a responsive web design, utilized by students in Computer Science classes.