**Ian SooHoo**

A close up of a sign

Description automatically generatedA picture containing sky, saw

Description automatically generatedhello@iansoohoo.me github.com/capturetheworld [linkedin.com/in/iansoohoo/](https://www.linkedin.com/in/iansoohoo/) [IanSooHoo.me](http://iansoohoo.me/)

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| **University of Illinois at Urbana-Champaign**  Master of Computer Science (MCS), Online | **IN PROGRESS**  GPA: 4.0 |
| **San Jose State University, CA**  Bachelor of Science in Computer Science (BSCS) | **MAY 2021** 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) | |

EDUCATION

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| **DocuSign** // Software Development Engineer | **JUNE 2022-SEPT 2022** |
| * Improved front-end user experience for 3 automation rules sections with both functional programming and polymorphism, for the 3rd party connections team. * Used **TypeScript, React.js,** and **NestJS,** and coordinated with 5 design and language localization teams across the company. * Strategized and implemented app connection info pages, with **React, CSS,** and **Typescript,** with **Oauth2.0**. * 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 sandbox environment setup to improve onboarding efficiency. | |
| **CK-12** // Interactives Software Development Intern | **SUMMER 2019** |
| * Implemented **6 JavaScript web apps** for four open-source digital textbooks as part of the math interactives developer team. * Modernized user experience pre-existing web apps utilizing GeoGebra script * Coauthored first standardized style guidelines document with 2 team members. * Strategized website improvements for the CEO, with 90% acceptance. | |
| **Upin** //UX Engineer Intern | **JAN 2018-OCT 2018** |
| * Designed wireframes, user flows, logos, and over 20 UI concepts in Sketch App and Illustrator. * Managed 30+ assets and sprints through Trello and Zeplin for the UX team. | |

WORK EXPERIENCE

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

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| **Pasttime – Post-COVID Activity Finder** |  |

* Lead 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.

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| **Opcode Machine Learning for HMM-based Metamorphic Virus Detection** |  |

* Implemented a responsive front-end with **EJS** templating, **Bootstrap**, and **CSS Grid**.
* 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.
* Incorporated string manipulation with **NUMPY** and **Python dictionaries** to produce a clean output.

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| **Responsive Diagram web app** |  |

* Designed and created, with a team of 4, a web app that aids in creating digital UML class diagrams, utilized by students in Computer Science classes.
* Developed and designed a responsive front-end with **JavaScript, HTML Canvas, and CSS.**