**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/)

EDUCATION

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| **San Jose State University, CA** | **MAY 2021** |

Bachelor of Science in Computer Science (BSCS) GPA: 3.50

**Relevant coursework**: Blockchain (**JavaScript** and **Go**), TensorFlow (on Anaconda), Advanced Python, Scala Functional Programming, Java Data Structures & Algorithms, Formal Languages, Cybersecurity, Compiler Design

HIGHLIGHTED EXPERIENCE

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

* Created **6 interactive math web apps** for 4 open-source online textbooks in **JavaScript** and GeoGebra Script.
* Analyzed feedback and recommended user experience changes for pre-existing web apps and site to CEO, with 92% acceptance.
* Researched and developed UX improvements for existing web apps to convey difficult math concepts to students

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| **Upin** //UX Engineer Intern | **SUMMER 2018** |

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

SKILLS **Languages:** Python • Java • **JavaScript** • **GoLang** (familiar) • Scala (familiar) • HTML/CSS/**EJS**  
**Modules/Platforms:** Flask • DataFrames • NumPY • Matplotlib • BeautifulSoup • NodeJS • MongoDB • **React** • Angular (learning) • **Git** • **AWS EC2 (Linux)**

HIGHLIGHTED PROJECTS

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| **Pasttime – Post-COVID Activity Finder** | **2021** |

* 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

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| **Opcode Machine Learning for HMM-based Metamorphic Virus Detection** | **2020** |

* 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.

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| **Responsive Diagram Webapp** | **2015-Present** |

* 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.
* Received positive feedback for its functionality and design. Utilized by students in Computer Science classes.