Nick Sercel

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I am the most passionate and driven software engineer I know. I eat, sleep, and breathe algorithms, syntax, and winning strategies. If you hire me I will write great code and be a great team player.

Web Development Skills   Database Skills   Other Skills

Web Development Skills		Database Skills	Other Skills
JavaScript	React	AWS/Firebase	React Native
Redux	HTML	Git	Python/Jupyter Notebook
CSS	Ruby	MongoDB	Java
Ruby on Rails	Mongoose	SQL/PostgreSQL	C/C++/C#
Node.js	Express.js	Mongoose	Swift
Webpack		Heroku	Jass

Experience

TransAstra Corporation

Software Engineering Intern | March 2021 - October 2021

- Restructured and migrated company Mattermost database from Mattermost cloud to AWS govcloud.
- Built a Jupyter Notebook creation tool allowing engineers with no software experience to generate procedure notebooks pre-scripted in HTML5 and Python which sync with Labview files to automatically parse and graph data from Labview and the Box cloud.
- Created an efficient and scalable image recognition and alignment python script.

Software Engineering Contractor | May 2022 - November 2022

- Developed the transastra.com website from scratch using React in two weeks.
- Designed the object and data models for the TransAstra Sutter telescope project and wrote software to enable peer to peer communication allowing one master computer to control sub computers and telescopes for image capturing and analysis.

Projects

Personal Site   HTML , CSS , Git   Live Site   Github

Contains detailed outlines of each of my projects and links to their git and live host (if applicable)

Chess-With-Friends   Github

HTML , JavaScript , CSS , React , Redux , Heroku , Ruby on Rails , postgreSQL , Webpack

- Harnessed the unidirectional state management of Redux to simplify React components and directly manage data for form inputs and form submissions.
- Incorporated React-Redux container and Redux selector patterns to architect highly scalable and uni-directional front-end state management.
- Created advanced recursive functions utilizing the minimax algorithm and alpha beta pruning along with the chess game system to construct a highly efficient chess computer able to think X moves ahead.

AcrossWords   Live Site   Github

HTML , CSS , JavaScript , React , Redux , Node.js , Mongoose , MongoDB , Express.js , Webpack

- Built a highly efficient game system utilizing only pruned, linear searches in conjunction with interactions between a React-Redux frontend and MongoDB backend to allow for near instant queries and returns.

Adventurers   HTML , CSS , JavaScript , Webpack , Firebase   Live Site   Github

- Developed a system to dynamically update a pseudo-react-state using only vanilla JS document events and css style manipulation, greatly improving performance and scalability.
- Created a class framework for character entities running the game entirely based upon their interactions with each other after being given a functional impetus by user interaction.

Encounter Quest   React Native , Swft , Kotlin/Java , Firebase   Github

- Utilized React Native best practices and hooks to create an efficient, scalable, and dry code base.
- Developed generalized graph algorithms for creating any type of random maze and pathfinding within it.

Education

App Academy | Summer 2020 | San Francisco, CA | The premier software development bootcamp
Pasadena City College | 2019-2022 | Pasadena, CA | Computer Science Major | 3.69 GPA
Cal State University Northridge | 2023-current | Northridge, CA | Computer Science Major | 3.69 GPA