

Erik Newland

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TECHNICAL SKILLS

Front-End | JavaScript (ES5 and ES6), TypeScript, React (Web & Native), Bootstrap, HTML5, CSS3, jQuery,
Back-End | Node.js, Express, PostgreSQL, MongoDB, MySQL, Firebase, Cloud Firestore, Socket.io, RESTful API
Testing/Deployment | Jest, Mocha, Chai, k6, New Relic, AWS: EC2 / RDS / S3
Developer Tools | Git, npm, pip, Webpack, Babel, Agile Methodology, CMS, TDD, Prompt Engineering,

SOFTWARE APPLICATION DEVELOPMENT EXPERIENCE

Function Junction | Solo 3-day Hackathon | *React Router, Firebase, Bootstrap, Socket.io,* 2023
FERN stack application that matches users to solve LeetCode-style problems together.

- Complete CRUD functionality using Cloud Firestore; private routes via Firebase Auth and React Router
- Socket.io implementation that updated both users' in-browser IDE and submission i-frame
- Utilized Judge0 API to compile and execute code in 20+ languages

Intellifusion | *React, React Router, Bootstrap, Sanity.io* | <https://eriknewland.github.io/consultation/> 2023
Headless CMS consultation website.

- Website concept for a firm using an existing CMS (webflow) solution
- Highly animated and responsive while easy to maintain and manage via Sanity Studio

SunChip API | Dev Tools Engineer | *nodeJS, Express, PostgreSQL, Sequelize, AWS, Python* 2023
Back-end micro-service for an e-commerce website deployed to AWS EC2 instance.

- Implemented two-layer authentication and utilized PostgreSQL and Sequelize to ensure data security and longevity of the system architecture.
- Scaled an archaic back-end to 20x VU traffic with a sub 1% error rate and load times under 50ms
- Created suite of custom tools (csvtransformers) to help team extract and transform data that sped up our service by 25-50ms on any given query

Published Projects | *Typescript, Node, Python & assorted libraries, Chrome SDK, Stripe SDK* 2023
2 npm packages (rainbowBrackets, csvtransformers) and 3 chrome extensions

- **BTC Converter/SaveUp!:** extensions that provide custom and asynchronous on-hover popups by using XPath API to read deeply nested nodes
- **OpenAI Study Buddy:** tool built on openAI's API (with bespoke payment rails) to help users learn to code
- **rainbowBrackets:** CodeMirror extension to colorize scope
- **csvtransformers:** manage large (1GB+) csv files in nodejs without heap memory problems by utilizing the spawn child API to process the csv files in python with the help of pandas and dask; written in ts

PROFESSIONAL EXPERIENCE

Sindolor | Operations Manager 2017 - 2021

- Created and managed cannabinoid-based medical trials with efficacy rates of 70%
- Helped develop and secure patent for cannabinoid-based method of use treatment for opioid addiction

Flux | Product Manager 2018 - 2019

- Improved projected yields by over 30% by re-designing hardware and sourcing better genetics
- Created product specifications, routinely presented to investors and shareholders, and interfaced with strategic partners that led to multiple investment rounds

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive Program 2023

University of California, Santa Barbara | B.A. Anthropology 2016