

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, k6, New Relic, Chai, AWS: EC2 / RDS / S3

Developer Tools | Vim, Git, npm, pip, Webpack, Babel, Agile Methodology, Scrum, TDD, Prompt Engineering

SOFTWARE APPLICATION DEVELOPMENT EXPERIENCE

Planny | Product Manager | *Typescript, React Native, Socket.io, MongoDB, Firebase* 2023

Mobile first application that helps users care for their houseplants.

- Conducted daily stand-ups, design discussions, and provided debugging assistance to team members
- Successfully implemented persistence for N number of chatrooms and messages through integration of Socket.io and MongoDB.

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

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

1 npm package (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
- 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**
- OpenAI Study Buddy: tool built on openAI's API (with bespoke payment rails) to help users learn to code

PROFESSIONAL EXPERIENCE

Sindolor | Operations Manager 2017 - 2021

- Created and managed cannabinoid-based medical trials with efficacy rates of 70+ percent
- 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