

# Erik Newland

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## TECHNICAL SKILLS

**Front-End** | JavaScript (ES5 and ES6), TypeScript, React (Web & Native), Bootstrap, HTML5, CSS3, Next.js

**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

**Live Applications, Libraries** | *Typescript, Node, Python, Next.js, Chrome SDK, Stripe SDK* 2023

*4 chrome extensions, 3 npm packages, 2 live websites*

- **BTC Converter | SaveUp! | OpenAI Study Buddy | BrainWave: Trivia Breaks:** A collection of fun extensions that utilize asynchronous actions, API calls and advanced DOM manipulation
- **rainbowBrackets | csvtransformers | clean-speech:** npm packages for front and backend usecases
- <https://gitty-iota.vercel.app/> | <https://codepengpt.netlify.app/> : Gitty is an educational git workflow website. CodepenGPT is a component-generator playground.

## PROFESSIONAL EXPERIENCE

**Volunteer Software Engineer** 2023

- <https://join.bitcoin.org.hk/Details> | <https://sats.bitcoin.org.hk/en>: Partial re-design of both routes including payment rail implementation \*Note: Details route requires completed forms in /indiv or /org routes
- 20 hours of volunteer education and consultation with youth and non-profit groups.

**Sindolor** | Operations Manager 2017 - 2021

- Created and managed cannabinoid-based medical trials with efficacy rates of 70%
- Developed and secured 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