

# CHRIS FLANNERY | SOFTWARE ENGINEER

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## TECHNICAL SKILLS

### Strong:

Javascript (ES6)	Node.js
TypeScript	Express
Webpack	SQL Databases
React	NoSQL Databases
Redux	GatsbyJS
HTML / CSS	OAuth, Bcrypt
Sass/SCSS	Interpreters/
Git / Agile	Abstract Syntax Trees

### Experienced:

GraphQL	Jest / Enzyme
npm packaging	Cypress.io
jQuery	Supertest
Context API	Shell / Bash
Accessibility	AWS (EC2/S3/
JWTs	RDS/Lambda)
Docker	TravisCI

## EDUCATION

The College of New Jersey  
B.A. Interactive Multimedia

## RECENT TALKS / ARTICLES

- Typescript: Real World Development Implementations
- Deep in the Weeds with Reactime, Concurrent React fiberRoot, and Browser History Caching, ITNEXT, 2019

## AWARDS

Reactime -  
Nominated for 'productivity booster'  
React Summit 2020

## INTERESTS

Synthwave | Outlaw country | Chicken parm | Powerlifting | Thrifting (esp. leather) | DIY tour routing | Good whiskey | Grunge art

## EXPERIENCE

### The Official List | Software Engineer

2020

*Scheduling app for casting directors & actors*

- Used React with Context & hooks to create UI, manage state and connect api routes.
- Built Node/Express server using REST architecture to configure api routes.
- Used Docker to virtualize/containerize, isolate and connect frontend and backend.

### Codesmith | Javascript Instructor

2020

*Online instructor for 2-week rotating cohorts*

- Instruction of CSPrep - online preparatory program designed to help students get accepted to top coding bootcamps. Covers Javascript core concepts including ES6, closures/scope/execution context, OOP & prototypal inheritance, data types, higher order functions, recursion, engineering best practices and technical communication.

### Reactime | Software Engineer | OSLabs

2019 - 2020

*Time travel state debugger for React Applications supporting Hooks, Context API*

- Implemented Agile development process, facilitating code reviews and 2-week sprints.
- Expanded Hooks support by broadening Fiber tree traversal algorithms.
- Enabled Concurrent Mode using dual-tree diffing algorithm to introduce interruptible rendering - reducing the need for UI debouncing/throttling and ensuring responsiveness.
- Added Suspense/lazy loading support, following Fiber's underlying node tree structure to discard fiber segments as needed and implement declarative loading states.
- Utilized AcornJS to generate abstract syntax tree to capture Hook declaration hierarchies, following thread of execution to dynamically match types to their corresponding states.
- Interfaced with Browser History API to capture session route history for React Router.
- Configured long-polling event emitter to dispatch state changes from app to chrome extension via snapshots, ensuring proper reconciliation without side effects.
- Expanded Jest testing suite using Enzyme utility for greater unit/integration coverage.
- Architected GatsbyJS marketing site using GraphQL on frontend for dynamic imports.
- Used TravisCI to automate deployment pipeline for npm package updates.

### Sackman Enterprises | Multimedia Developer

2018 - 2019

- Utilized GUI to interface with MySQL-based CMS to manage and customize deeply embedded application and ensure data integrity and security of transactions for clients.
- Customized CSS using fluid grid system to reduce browser scaling errors and provide accessibility against socio-economic bandwidth restrictions.
- Used JavaScript to integrate transactional email service with SaaS to store relational data, provide interactivity for webpages, and reduce complexity of legacy PHP.

### Fuerza Strategy Group | Multimedia Developer / UX

2017 - 2018

- Applied HTML, CSS & Javascript to rapidly prototype and build campaign websites.
- Produced content and processes for responsive email templating with HTML/PHP.

## OPEN SOURCE

### PetChart EMR | Electronic Medical Records

- Distributed Redux's observer pattern through React hierarchy using store as single source of truth, reducing SPA view errors and unwanted side effects.
- Used HTML Canvas to capture, render and export static view of page UI.

### TinaCMS | Real-time Site Editing

- Used Typescript to enhance UX by providing keystroke-accessible posting methods.
- Provided technical & editorial review of Git commands, ensuring documentation quality.

### CommSource | Ecommerce Templating Engine

- Built webpack using webpack-dev-server with watch mode and hot reloading as proxy to enable faster service of bundled content from RAM.
- Constructed NoSQL database using an ORM modeling rule to handle large data sets.
- Implemented CSRF protection with randomized tokens to ensure valid HTTP.