FUN COOL KNOWLEDGEABLE SMART BRAVE DECENT AT PING PONG

# 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/ Abstract Syntax Trees |
| Git / Agile | |

**Experienced:**

| | |
|---|---|
| GraphQL | Jest / Enzyme |
| npm packaging | Supertest |
| jQuery | Puppeteer |
| Context API | Shell / Bash |
| Accessibility | AWS (EC2/S3/ RDS/Lambda) |
| JWTs | TravisCI |
| Docker | |

## EDUCATION

The College of New Jersey
B.A. Interactive Multimedia

## RECENT TALKS / ARTICLES

- Typescript: Real World Development Implementations; Apache/nginx vs. Serverless - Build With Code NYC, 2019
- Deep in the Weeds with Reactime, Concurrent React fiberRoot, and Browser History Caching, ITNEXT, 2019

## INTERESTS

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

## EXPERIENCE

**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 declation 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 requests.

**oAuthA | Node Authentication Middleware**

- Integrated oAuth 2.0 and cookies by decoupling existing Google, Github etc. protocol, simplifying the auth flow and offloading vulnerabilities to dedicated security providers.
- Combined logic into single middleware package available on npm.