

# MARK HARPER

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## Skills

### Languages

Javascript/Typescript, Python, Elixir

### Tools & Version Control

Vite, Webpack, Docker, Git/Github/Actions, Netlify

### Frameworks & Libraries

React, Redux, D3, Lodash, Koa, Jest, Cypress

### Methodologies

Mob Programming, Kanban, Code Review, CI/CD

## EXPERIENCE

EXAPTIVE | OKLAHOMA CITY, OK | 10 / 2016 - 08 / 2022

**SOFTWARE DEVELOPER CORE TEAM** | 01 / 2017 - 09 / 2019, 07 / 2020 - 08 / 2022

- Practiced independent Kanban and mob programming workflows in remote and in-person environments
- Refactored a graph data pipeline to improve the performance and stability of requests and interface rendering
- Migrated Javascript libraries and React interfaces to Typescript to assist a multi-step data migration process and improve the code quality of the application as a whole
- Built an app encapsulation framework for user created programs in a visual programming environment to provide subscription management and payment processing
- Moved Node services for form processing and web hooks from a Sails Js MVC application application to Koa Js
- Contributed heavily in migrating the client codebase to React using Create React App and React Testing Library

**SOFTWARE DEVELOPER PRODUCT DISCOVERY** | 10 / 2019 - 06 / 2020

- Collaborated on an in-person scrum team to rapidly design and continuously deploy experimental platform features
- Architected an embedded application feature for React applications to speed up prototype development while allowing for code reuse
- Implemented a React interface for dynamically constructing graph paths to query Neo4j data expressively

**DEVELOPER SUPPORT ENGINEER** | 10 / 2016 - 12 / 2017

- Established quality assurance and support processes to improve stability and reduce regressions
- Used D3, canvas, and WebGL to create many reusable data visualization components including network diagrams, heat maps, and parallel coordinates diagrams
- Built serverless python components for features including web scraping, API integration, and database connectors
- Coordinated between core and client-facing teams to ensure on-time and well documented deployment

**FACTIVATE** | DURHAM, NC | 09 / 2015 - 07 / 2016

**FRONT-END DEVELOPER**

- Constructed editable, draggable, resizable charting components, revising UI/UX via iterative testing with internal and external teams (C3.js)
- Solved UI/UX & architectural barrier of reading data from HTML5 Canvas and pushing data to the clipboard for the application's cut/copy/paste functionality (jQuery & Javascript)
- Refactored Front-End components to reduce bugs and improve test coverage
- Contributed to daily standups and sprint retrospectives to focus on fast-paced development of an MVP
- Worked with Sales, Marketing and Quality Assurance to bring client recommendations into the product, implement user-behavior analytics and reduce feature regression

## EDUCATION

**GEORGIA INSTITUTE OF TECHNOLOGY** | 8 / 2020 - 05 / 2023 (in progress)

*MS Computer Science in Computing Systems* | GPA 3.5 / 4.0

**UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL** | 8 / 2010 - 12 / 2013

*BS Biology, BS Psychology* | Overall GPA 3.4 / 4.0