

Tirey (Ty) Morris

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EDUCATION

University of Texas at Austin

Bachelor of Science in Computer Science (August 2014 - December 2017)

PROFESSIONAL EXPERIENCE

Sharethrough - Software Engineer

Jan 2019 - Current

- Took part in the refactoring of a rendering engine from **CoffeeScript** to **TypeScript + React** in order to increase render rate and decrease payload size by 50%
- Implemented various features in the stack of an advertising exchange application, including a user interface in **React** for creating/customizing the display and format of advertisements, and a **Ruby on Rails** app for video/banner ad management that functioned in conjunction with various **AWS** services
- Led the migration of multiple app continuous integration and deployments from Jenkins to Travis CI

Bluebeam, Inc. - Software Engineer 1

May 2017 - October 2018

- Worked in an **Agile** development environment on a PDF document editing application leveraging technologies such as **React**, Leaflet.js, and Alt.js on the frontend, and a combination of **Node** and **SQL Server** on the backend. Helped bring the application from the design stage to production-readiness while addressing bugs that arose and simultaneously implementing/architecting new features.
- Developed an **AWS Kinesis** Data Stream consumer in Java to process large streams of data and dispatch massaged data in **Avro** format to a **SQL** stored procedure. The consumer was used in the lifecycle of a SaaS PDF editing application for consuming document batches.

Bluebeam, Inc. - Software Engineering Intern

May 2016 - August 2016

- Collaborated in a team of engineers designing a near-realtime analytics and metrics dashboard web application; written with a **React** frontend and **.NET MVC** backend, and utilizing Google Charts with D3 for visualizations.

UnboundID - Software Engineering in Test Intern

May 2015 - May 2016

- Spearheaded work of a web application that leveraged **Flask**, JQuery, **MongoDB**, and **Bootstrap** to deliver analytics on customer support data in useful formats for internal tools.
 - Created a system provisioning tool with Cobbler, **Puppet**, and Kickstart scripts as a PXEBoot and configuration management solution, saving hours of manual configuration per OS installation. Helped develop an accompanying **Django** web interface to image machines.
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PROJECTS

[propolis.js](#) - Created a blogging content management system in TypeScript and Preact, enabling users to write blog entries and website pages in Markdown and delegate rendering to the Propolis engine

[ray-tracer-challenge](#) - Implemented an offline renderer from scratch in Java using the Whitted ray tracing algorithm

[use-csrf](#) - Built a lightweight, reusable react hook for fetching a CSRF token from a Rails template for better React integration with Ruby on Rails

LANGUAGES

Proficient: JavaScript/ES6, **TypeScript**, Python

Experienced: **Ruby on Rails**, C, C#/.NET

TECHNOLOGIES

JavaScript (proficient): React, Preact, TypeScript, Node

Ruby on Rails (experienced)

Python (experienced): Flask, Django

Other: Linux, Bash, Git, CI/CD (Travis/Bamboo/Jenkins), HTML/CSS, SQL, MongoDB, Swagger