**CYMEN VIG**

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github.com/cymen

**Senior Software Engineer**

## PROFESSIONAL EXPERIENCE

**Vig Consulting, Remote**                                                                                     3/2018-Present
- Focused on web application development utilizing a number of different tech stacks but almost always involving React (JavaScript). Backend stacks have included Node.js, Ruby on Rails, serverless (AWS Lambda, Firebase).

**Aural Analytics, Remote**                                                                                     10/2020-2/2021
**Senior Software Engineer**
- Early stage startup with focus on creating data collection progressive web applications (PWAs) for use within clinics with intermittent network connectivity. Data collection was scripted and including various input types like the typical text/multiple choice but also audio recordings.

**Trov, Remote**                                                                                                     4/2017-6/2019
**Senior Software Developer Engineer**
- Leading project to develop desktop and mobile web equivalent of a mobile application for an undisclosed insurance market.
- Technology stack of React and Redux with a C#-based backend.

**Defero**                                                                                                           8/2015-Present
**Co-founder**
- Leading product and technical development of a school information system focused on ease of use.
- Includes features such as campus alerting, support for block-based classes, arbitrary reporting periods and easy attendance.
- Technology stack of React, Redux, NodeJS and PostgreSQL along with AWS Simple Email Service, Simple Notification Service, S3 and Twilio.

**Mattermark, San Francisco, CA**                                                                       3/2015-3/2016
**Senior Software Engineer**
- Lead front end developer focused on creating a rich web application with excellent user experience for application behind paywall. Using modern front end technologies (modules, React, Redux, Babel-compiled ES6) along with adding new JSON-based edge API services and contributing to the existing APIs (Ruby, NodeJS).
    - Complex table layout with filtering abilities for querying investor data.
    - Next generation of the company details page.
    - Site-wide search and navigation (injecting React components into legacy pages to avoid having to write multiple versions of search, etc).
- Primary developer of Mattermark Google Chrome extension.
- Primary developer of Mattermark public company profile pages which reuses the existing React companies but renders them server-side (to avoid having to give non-authenticated users access to our internal APIs as we do for non-public company profile pages). Uses React and NodeJS along with refactoring to allow for both server-side and client-side rendering and data fetching. More than doubled daily traffic.
- Responsible for continued development on Mattermark iOS application (primary developer left) while searching for another iOS developer. Written in Objective-C.
- Explored using react-native to bring Mattermark mobile application to Android (and potentially go in the direction of a shared code-base for iOS).

**Teespring, San Francisco, CA** 2/2014—3/2015
**Senior Engineer**
- Second developer hire for team focused on the web application used to create and edit designs primarily for t-shirts (and now stickers) at teespring.com/design.
- Responsible for refactoring existing 2-3 years of startup iteration quality JavaScript code into modules to make it possible for new developers to be able to contribute quickly without breaking things and unit test.
- Assisted with interviewing new team members.
- Refactored editor from RaphaelJS and some plugins to a SVG and DOM-based modular implementation as part of 3-4 week pairing effort with another developer (who had extensive 2D graphics programming experience).
- Took browserify-rails Ruby gem from a prototype phase to a robust implementation which was used at Teespring to refactor from legacy JavaScript to CommonJS.
- Contributed extensively to Ruby on Rails backend including bug fixes and bigger refactorings as system changed.

**8ᵗʰLight, Chicago, IL** 2/2012—2/2014
**Software Craftsman**
- Practiced TDD, SOLID, pair programming and agile iterations as a consultant.
- Implemented new features on and enhanced JavaScript web application (600k+ lines) including platform changes such as adding modularization and reducing time to build (Java, MongoDB, MySQL).
- Enhanced auto loan application system including adding additional features to jQuery UI slider to support ranges for loan amounts (JavaScript, Ruby on Rails, MySQL, REST).
- Developed an invoicing system that pulled data from a separate iteration/planning system to create invoices in PDF format (front end completely Backbone.js, backend REST endpoints in Ruby on Rails, PDF).
- Spiked PDF creation service in Clojure using iText with working example (Java interoperation).
- Wrote an HTTP server in Clojure to learn the language including support for basic verbs (GET, HEAD, POST and PUT) using test-driven development and an acceptance test suite (cob_spec).
- Mentored apprentices including one for 8 months (became an employee) and another for 3 months (also became an employee.

**Webitects, Chicago, IL** 2/2010—1/2012
**Programmer**
- Lead development of a next generation content management system to base new projects on using C#, ASP.net MVC, and JavaScript.
- Developed web application to create email campaigns targeting specific customers based on purchase history and other account attributes pulling items from product database (JavaScript, C#, ASP.net MVC).
- Web application to create email campaigns with targeted emails based on purchase history (JavaScript, C# and ASP.net MVC)
- Determined root cause of poor database performance of sites built using legacy content management system (lack of indexes, creation of complex keys programmatically).

**CDW Hosting and Managed Services** (formerly Berbee)**, Madison, WI** 2004—2/2010
**Software Engineer, 2008—2010**
- One of two employees responsible for entire monitoring infrastructure used to provide managed services for servers, networks and applications.
- Automated process of adding and removing new reports so that when new monitoring was added, new reports were automatically created (Perl).
- Developed custom monitoring agents (Perl).
- Development of customer operations website that provided access to monitoring data and reports (PHP)

- Resolved performance issues on 300+ GB database cluster used to store last 90 days of monitoring data

**Network Operations Analyst, 2004—2007**
- Initial support contact for customers and automated monitoring performed on both collocated and remote managed servers, network, voice, database and applications while attending college

## EDUCATION

**BS, Computer Sciences**                                                                            2007
University of Wisconsin, Madison

## PROFESSIONAL DEVELOPMENT

**Languages:** C#, Clojure, EcmaScript 6 (ES6), Java, JavaScript, Lua, PHP, Perl, Ruby, SQL, HTML and CSS
**Data Storage:** Redis, PostgreSQL, MySQL, Microsoft SQL Server
**Cloud:** Amazon Web Services (AWS) including CloudFront, Elastic Beanstalk, S3, SES, SNS, EC2