

Recent Employment

Senior Software Developer - Liberty Mutual Insurance (June 2016 - Present)

My role on this team is to help lead the implementation of a new online claim status tracking web app. This includes designs of major portions of the functionality of the app such as tracking a claim through phases and enabling documents to be uploaded.

- Designed and wrote application using the portfolio's front-end architecture (React/Redux, Express/Node, and modern JS). The old architecture was an Javascript ES5/Dojo based architecture.
- Designed and wrote application using the portfolio's System of Engagement architecture (Express/Node, MongoDB, and GraphQL). The old architecture did not include a System of Engagement, and instead directly interacted with the back-end System of Record.
- Enhanced Webpack builds to reduced build artifact size by ~25% to improve application load times.
- Set up automated functional tests within our app using Behavioral Driven Development (BDD) techniques and Webdriver IO.
- Configured multiple CI pipelines using Bamboo.
- Acted as a technical coach to existing developers who were new to the architecture, as well as new developers just starting to code for the first time.
- Participated in customer testing and usability studies to determine the behavior our app should have.

Tech Used: ES2015, React, Redux, Apollo Client, Mocha/Chai, Sinon, ExpressJS, NodeJS, GraphQL, WebDriverIO, Sass, Webpack, Bamboo, MongoDB

Software Developer - Liberty Mutual Insurance (June 2015 - June 2016)

My role on this team was to build major features of a new online claim filing web app. This included designing the original navigation system, setting up our initial pass at the apollo-client, and implementing pieces of the newly created functional test suite.

- Selected the new application's front-end architecture (React/Redux, Express/Node, and modern JS). The old architecture was an Javascript ES5/Dojo based architecture.
- Determined the use of a System of Engagement back-end architecture (Express/Node, MongoDB, and GraphQL). The old architecture did not include a System of Engagement, and instead directly interacted with the back-end System of Record.
- Helped implement the department-wide use of automated functional tests within our app using BDD-techniques and Webdriver IO.
- Presented to stakeholders and worked with them to gain feedback to improve upon the product.
- Participated in UX testing, analytics, and validated learning techniques to improve our product. This allowed us determine needed functionality and test assumptions about our user experience.

Tech Used: ES2015, React, Redux, Apollo Client, ExpressJS, NodeJS, Jest, WebDriverIO, GraphQL, CSS

Software Developer - Liberty Mutual Insurance (June 2013 - June 2015)

My role on this team was to contribute to all front-end development of the online self-service web app (billing and claims primarily). This included adding new functionality to the app, enhancing the framework the app was created on, and making a utility to automate the maintenance of a shared test environment used for local development.

- Implementing the front-end to an online account maintenance and services application.
- Created Node.js tool for automating code updates on test virtual machines.
- Learned the Dojo Javascript framework and extended it where needed.
- Created and maintained wiki documentation outside of the code and jsdoc for documentation inside the code.
- Acted as liaison & support to Business Systems Analysts during testing.

Tech Used: Javascript, Dojo, NodeJS, Sinon, DOH

Prior Employment

Associate Software Developer - Liberty Mutual Insurance (June 2011 - June 2013)

Tech Used: Javascript, Dojo, Sass, Sinon, DOH, Java, WID

Student Intern - Software Forge Inc (May 2010 - May 2011)

Tech Used: C#, .NET 4.0

Programming Assistance Center - Consultant - Software Forge Inc (Sept 2008 - May 2011)

Tech Used: Java, C, Linux, SSH

Web Developer & Technical Support - Global Online Electronic Services (May 2006 - Jan 2010)

Tech Used: PHP, MySQL, IIS, Linux, Windows Server 2000, Apache, HTML, CSS

Side Projects

1. apollo-client - "When Non-OK Response Received from fetch, throw an error including the response"
<https://github.com/apollographql/apollo-client/pull/1205>
2. apollo-client - "Invoke afterware after any kind of response"
<https://github.com/apollographql/apollo-client/pull/1351>
3. mime-types - "Add in new public function - lookupAll()"
<https://github.com/jshttp/mime-types/pull/33>
4. mockerana - A small tool for generating mock data in F#
<https://github.com/pseudoramble/mockerana>
5. City Codes - One of my first functional programming (FP) explorations
<https://bitbucket.org/dswain/city-codes>
6. fp-challenges - A repository of small challenges to explore and understand FP concepts
<https://github.com/fp-challenges/fp-challenges>

Education

University of New Hampshire - BS Computer Science - May 2011

Hackettstown High School - June 2007