

# Rohit Tirmanwar

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## SKILLS

- Expert in front-end design and development with 7.5+ years of software development experience.
- Expert in Angular framework version 2, 4 and 6 with overall 4+ years of experience in front-end development.
- Worked extensively using ES5, ES6 and Typescript with object oriented programming style.
- Worked on design and development of white-labeled front-end application, which will be branded using various configurations that can be applied at runtime.
- Hands on with many latest and popular Angular techniques and features including Tree Shaking, Server Side rendering, Angular Schematics, Angular Elements, FormGroups, Lazy loading, etc.
- Hands on with NativeScript for Angular, that provides a way to build native ios and android application, using the same Typescript code that is used for web platform.
- Proficient in front-end state management using Redux and its integration with RxJs observables for asynchronous operations.
- Proficient in managing data flow by consuming REST APIs asynchronously using Rxjs Observables, GraphQL and Apollo with efficient caching mechanism.
- Proficient in cross-browser compatibility and building responsive interfaces with mobile-first strategy.
- Proficient in CSS styling including custom grid system, media queries, animations and svg images with working knowledge of Bootstrap styling and Angular Material.
- Proficient and working knowledge of using CSS preprocessors like SASS and LESS.
- Worked extensively on Node.js with Express, integrating GraphQL and OAuth2 SSO authentication.
- Good knowledge of Java and back end technologies including J2EE, Spring MVC, JPA, Hibernate, Servlets, EJB and JDBC.
- Proficient of end-to-end unit testing automation for front end using Protractor, Karma and Jasmine.
- Good knowledge of SQL relational database and familiar with NoSQL MongoDB.
- Highly skilled working in agile/sprint settings and leading daily stand up meetings.
- Expert using JIRA for task management, and Git and SVN for source code management.
- Hands on with WebPack, Gulp and Angular-cli to build, package and deploy the front-end code.

## EXPERIENCE

### **FOLIO Financial, Inc, McLean, VA — *Front End Engineer***

**July 2018 to Present**

- Worked closely with the product owner, design team and back end engineers to design and develop the front end interface of an online Robo financial investment and brokerage application.
- Worked on developing a white-labeled front-end architecture using Angular 6, that can be configured as a BRAND, using various configurations at runtime for various styles, colors, content and features.
- Developed a common library in Angular, that captures common business requirements and published to private npm repository, which are imported as a npm package to use in multiple relevant applications.
- Worked on state management using Redux based architecture, that stores all the data (state) at one place and the relevant components can subscribe to the reducer events, to alter their views based on the state.
- Implemented various GraphQL Schemas and Mutations in Node.js framework based on the requirements to consume back end REST APIs.
- Implemented various Angular components with material views, styled using SASS, applied colors using variables and mixins, layouts with responsive and mobile-first strategy, supporting cross-browser compatibilities.
- Worked using Webpack, Angular-cli for various configurations including AOT builds, created gulp tasks for packaging common library and branded Angular components and modules.
- Improved the old architecture, which resulted in reduction up to 80% of the time spent on adding new features.

**George Mason University, Fairfax, VA —Front-End Engineer / GRA under Dr. Mihai Boicu**

**January 2017 to May 2018 (1 year 5 months)**

- Designed and developed the front-end of a web application to help analyzing intelligence problems with online collaboration of multiple analysts and crowdsourcing.
- Implemented major features with styled views including online messaging, online training, interface help tutorials, tree based argumentation etc.
- Improved user experience by developing easy to understand and responsive interface, which reduced 70% of the time for new users to analyze and solve the intelligence problems.
- Implemented reusable and loosely coupled front-end components using Angular 2.0 framework, Typescript and applied responsive styles using CSS and Bootstrap library.
- Designed and implemented Angular services using HTTP and Promise for back-end integration using RESTful APIs and proper error handling.
- Worked in Agile and test-driven development settings to plan features and release in short interval MVPs.
- Implemented end-to-end unit tests using Karma and Jasmine in Angular.
- Led and managed bi-weekly sprint plans and daily standup meetings for a team of 5 people.

**General Electric, Bangalore, India - Lead Engineer**

**August 2014 to July 2016 (2 Years)**

- Worked on a web based product development using Java to integrate over 200 design tools as part of a single system, for better hand-offs with effective data transfer and communication.
- Implemented front-end interface for the product using JavaScript, jQuery, CSS3, SASS and HTML5.
- Led a critical project in alpha stage which was running late for more than 6 months and productionized by utilizing only 50% of the anticipated time, following Agile/sprint process in planning and development.
- Worked as a single point of contact to US based stake-holders and had been the part of all phases of software lifecycle, with a successful deployment of the first version in production.
- Improved performance of a critical parameter computation in a Nacelle design tool by 4 times, using techniques like least square fitting algorithm and parallel computation.

**Geometric Limited, Pune, India — Software Engineer**

**June 2011 to August 2014 (3 years 2 months)**

- Designed and developed the graphical user interface using MFC and QT, to provide the best user experience.
- Developed a feature to pass a successful contract which helped increasing the product sales by more than 40%.

**EDUCATION**

**George Mason University, Fairfax, VA — MS in Software Engineering - May 2018 (GPA 3.95)**

**Government College of Engineering, Amravati, India - Bachelor of Technology - May 2011 (GPA 3.33)**

**ACADEMIC PROJECTS**

- Developed a secure web based multiplayer game named “Chain-Reaction” using Node.js framework and MySQL on back end and HTML, CSS and JavaScript on front end. The code was implemented in couple of weeks and delivered with zero vulnerabilities including best practices of OWASP for input validation, prepared statements, XSS, CSRF and data injections.
- Designed and developed a front-end interface for a basic online restaurant ordering system, using HTML, Javascript and CSS and utilizing the best user experience practices learned throughout the course.