

# Rohit Tirmanwar

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## SKILLS

- Expert in front end web design and development using Angular 2.0 framework.
- Expert in object based web programming languages including Typescript and JavaScript.
- Proficient in ES5, ES6 and using Typescript with object oriented programming style.
- Proficient in UX design and building responsive and adaptive interfaces using mobile-first strategy.
- Proficient in CSS3 styling including custom grid system, media queries and animations.
- Proficient in CSS preprocessors including SASS and LESS with working knowledge of Bootstrap.
- Highly skilled in debugging JavaScript code working on performance and security improvements.
- Proficient in C++, Java and technologies including J2EE, Spring, JPA, Servlets, EJB and JDBC.
- Proficient in test driven development and utilizing JUnit, Karma and Jasmine to develop automated tests.
- Proficient in SQL relational database and familiar with NoSQL MongoDB.
- Working knowledge of Node.js framework, RESTful web services and familiar of d3.js for data visualization.
- Highly skilled working in agile and waterfall settings, managing sprint plans and daily stand up meetings.
- Hands on with JIRA tool, Microsoft Team Foundation and source code management using Git and SVN.
- Hands on with WebPack, Maven, Visual Studio, VS Code, Eclipse and familiar with IntelliJIDEA and NetBeans.
- Proficient in problem solving, data structures, design patterns and professional standard coding practices.
- Good team player with excellent communication, attention to detail, written and presentation skills with strong aptitude towards learning new technologies.

## EDUCATION

**George Mason University**, Fairfax, VA – *MS in Software Engineering* - **Expected May 2018 (GPA 3.93)**

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

## EXPERIENCE

**George Mason University**, Fairfax, VA — *Graduate Research Assistant* under supervision of Dr. Mihai Boicu

January 2017 to Present

- Designed and developed the front end of a web application which helps analyzing intelligence problems with collaboration of multiple users.
- Improved user experience by developing easy to understand and responsive interface which reduced to 70% of the time to analyze and solve the intelligence for the first time users.
- Implemented loosely coupled front-end components using Angular 2.0 framework, Typescript and JavaScript and used CSS and Bootstrap styles for consistent look and feel and responsiveness.
- Developed front-end code in a timely and high quality manner while ensuring high performance and security.
- Implemented service classes to interact with back end code through RESTful web services and exchanging data in JSON.
- Worked in agile and test driven development settings to plan features and release MVPs in short intervals.
- Implemented client side unit tests and integration tests using Karma and Jasmine in angular for testing optimization.
- Managed bi-weekly sprint plans and daily standup meetings with a team of 5 people.

## EXPERIENCE (Continued..)

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

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

- Worked on a web based internal application development 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 using JavaScript, jQuery, CSS3, SASS and HTML5.
- Created and implemented a custom CSS grid system, with CSS media queries for mobile responsiveness.
- Consulted and documented UI best practices and code standards to maintain and improve performance and security.
- Led a software project in alpha stage which was running late for more than 6 months and productionized by utilizing only 50% of the time under strict timelines following agile methodologies for planning and development.
- Participated in gathering functional requirements with US based stake-holders and effectively converted functional requirements to use cases and successful implementations.
- Served as primary point of contact for a small project in alpha stage, engaging in weekly meetings for requirements, implementation, testing plans and release plans.
- 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.
- Worked on a CAD based software product development DFMPPro using C++ and computational geometry techniques.
- Implemented logic for recognizing manufacturing features modeled on dumb geometry, which involves a great problem solving and algorithm skills.
- Developed a feature to pass a successful contract which helped increasing the product sales by more than 40%.
- Mentored team members about newly available APIs of NX by self-learning them in a short time.
- For the excellent performance, got appreciated with GeoChamp and Star Performer awards for the year 2013, which is presented each year to only one person in the entire section.

## ACADEMIC PROJECTS

- **Secure Software Design and Programming**
  - Designed architecture and developed a secure multi-player online game using Node.js framework, CSS, HTML, JavaScript and MySQL.
  - Maintained high quality of code for not compromising on security and ensured proper input validation, prepared statements to avoid vulnerabilities including XSS, CSRF and data injections.
- **User Interface Design and Development**
  - Designed a website for online and mobile ordering of food that could be served in the restaurant including features like table reservation, pre booking, pre ordering and continuous feedback.
  - Implemented well organized and easy to use interface to display food items with important details and other features using HTML, CSS and JavaScript.