

# Tushar Raj

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## Personal statement

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I have 9.2 years of rich experience in software engineering. I have worked in various domains like Healthcare, IoT and Field Service Automation. I am seeking out a challenging role that utilizes my skills to help grow the organization's business.

I am a highly skilled professional in building web products. My expertise lies in product designing, the right use of engineering processes, the use of efficient algorithms that optimize the solution and enhance the app performance and architecting the product well enough so that the product scales without any disturbance in the framework.

I have been mentoring and leading the team for 5+ years and have rich leading experience when it comes to end-to-end delivery of the product. I am also a valuable individual contributor and can singlehandedly take the product to heights by achieving milestones.

My core skills are as follows: -

- **Frontend** – JavaScript, ReactJS, NextJS, Angular, Typescript, Redux, HTML5, HTML4, CSS, SASS, SCSS
- **CSS Frameworks** – Bootstrap, Tailwind CSS
- **Backend** – NodeJS, Express Framework, C#, Entity Framework, Lambda Expressions
- **Database** – MongoDB, SQL
- **Cloud** – Azure, AWS
- **Test Practices** – Behavior-Driven Development (BDD), Test-Driven Development (TDD)
- **React Test Frameworks** – Jest, Enzyme
- **Angular Test Frameworks** – Karma, Jasmine
- **Source code management tools** – GIT
- **Product management tools** - JIRA
- **CI/CD tools** – Jenkins, Azure
- **Code quality tools** – SonarQube
- **Code quality plugins** – ESLint (for JavaScript), TSLint (for TypeScript)
- **IDEs** - Visual Studio Code, Visual Studio 2019
- **SDLC methodologies** - Agile

## Work Experience

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### Technical Lead, Zinier Technologies Pvt. Ltd.

11/2020 - 01/2023

#### Responsibilities & Achievements

Project Overview –

Worked on creating deskless productivity software that enables service teams focused on installation and maintenance to better execute in the field. From the software applications of the Productivity Suite (a full suite of modular web and mobile apps -- also known as Ziniapps), to the configurability of our platform, and the expanse of our Integration Marketplace, the Zinier ecosystem has been the one-stop shop for field productivity.

Responsibilities –

- Managed a team of 5 junior developers to deliver monthly business targets.

- Added Google Analytics in our web app to help the organization understand its usage from the customers and what measures we can take based upon the activities to improve the product business.
- Awarded Best Man in the Team in 2021 for being customer-focused and a great team player.
- Designed and developed the product architecture, UI libraries and product features.
- Led, mentored, and managed the UI team.
- Key member in the hiring process of the organization.
- Wrote UI automation test framework for unit testing the React components using Jest and Enzyme.
- Worked towards making the app performance better by implementing best performance techniques on the UI side like Lazy Routes/Loading, reducing the bundle size through webpack, optimizing the code, Gzip Compression on the server side (Node JS), etc.
- Documented High-Level Design and Low-Level Design.
- Used to have active product feature discussions with the Product Owner, Technical Architect and UX Architect.
- Used to document the features in JIRA as Epics or Stories.
- Status update in Daily Scrum meeting.
- Work demo to everyone in the verticals after every sprint ends.

#### Achievements –

- Honored with the “Above and Beyond” award for my exceptional technical contribution and for exhibiting the right leadership in the team.

#### Skills –

**JavaScript, React JS, Redux, HTML, CSS, Bootstrap, SASS/SCSS, Visual Studio Code, GIT, AWS, Jenkins, Agile, Jest, Enzyme, SonarQube, ESLint**

### **Lead Engineer, Dover India Pvt. Ltd.**

*01/2019 - 10/2020*

#### Responsibilities & Achievements

##### Project Overview –

It is a Digital IoT, cloud-based **Platform** project that works towards different business requirements and implements IoT in a general fashion. It constitutes some major features like Device Management, Organization Management, User Management, Alerts Dashboard, Alerts Configurations, etc. The idea behind this project is to work as a solution provider for multiple businesses by providing them with a generic platform codebase (like a Storybook) that they can reuse as a whole or extend the functionalities as and when needed.

##### Responsibilities –

- Designed and developed architecture, frameworks, UI libraries and generic solutions for different businesses so that these businesses could build themselves up, later, using a single solution provider (Platform).
- Created and published the coding best practices in the team and published the design principles to follow while coding.
- Led and mentored the UI team of 7 people. Unblocking them from critical issues and creating reusable components and libraries to speed up the productivity of the team.
- Documented the work as a step guide for multiple businesses so that they can follow the same for their initial setup and implementation later.
- Used to work with the Solution Architect in the United States on major refactoring and improvising the architecture.
- Technical discussions among different leads (Backend and Frontend) and architects about the reliability and scalability of a product.
- Documented High-Level Design and Low-Level Design for features.
- Product discussions with the Product Owner and Architects to document the features in JIRA as Epics or stories.
- Status update in Daily Scrum meeting.
- Feature demo to Vice President and Directors after every version release.
- Internal demo to the team at every sprint end.

##### Achievements –

- Honoured with the “Prashansa” award for my exceptional technical contribution.
- I was promoted to Lead Engineer after a year due to my exceptional technical and outstanding leadership skills.

Skills –

**JavaScript, Angular 9, Typescript, HTML, CSS, Bootstrap, SASS/SCSS, Node JS, Express Framework, MongoDB, Visual Studio Code, GIT, Azure, Agile, Karma, Jasmine, TSLint**

## **Senior Engineer, Resideo**

*08/2018 - 12/2018*

### **Responsibilities & Achievements**

Project Overview –

It was an IoT data platform project that stores thermostats (legacy and newer ones) event data. These thermostats were widely used in the US and EMEA regions. The architecture supports data streaming using Kafka and populates the data into the Cassandra database. The populated data was then used for analytical purposes by the customers to understand the behaviour and usage of thermostats in different regions of the world. The project was in a transition phase; therefore, the requirement was majorly towards migrating the code from one technology to another.

Responsibilities –

- Status update in Daily Scrum meeting.
- Migrated existing UI written in jQuery and Angular JS to Angular Typescript v6 framework.

Achievements –

- Gave an idea for a patent for the homes domain which got selected in the Top 10 among 200+ submissions.
- Being the sole inventor, presented it to the VP, Directors, Managers, and employees.

Skills –

**JavaScript, Angular v6, Typescript, HTML 5, CSS 3, Bootstrap 4, Visual Studio Code, GIT, Azure, Agile.**

## **Senior System Engineer, Siemens Healthineers**

*12/2015 - 08/2018*

### **Responsibilities & Achievements**

Project Overview –

It is a cloud-based network that brings together healthcare professionals to advance medicine and human health. Be it an institution, hospital chain, or integrated delivery network, transparency to the performance is key to its success. It brings this transparency to the modality fleet. With its built-in multivendor support, it grants instant access to fleet statistics. More crucially, it empowers healthcare professionals to identify improvement potential on all levels of execution.

Responsibilities –

- Designed and developed healthcare product features like CT/MR scanners, scan doses on patients, protocols, etc.
- Technical discussions with Architects and Leads about approaches to have a reliable and scalable code with no loopholes.
- Product Grooming discussions with the Product Owner, Architects, and team to understand the Epics and stories in detail.
- Created tasks and sub-tasks under JIRA stories.
- Status update in Daily Scrum meeting.
- Demoed to Product Owner, Architects, Managers and Team in Retro meeting happens at sprint end.
- Discussed "what went wrong", "what went right" and "areas of improvement" in the Retro meeting.
- Led and mentored team on BDD and TDD best practices.
- Wrote Unit Tests for UI and Backend in TDD fashion.
- Automated sanity tests.

#### Achievements –

- Being the only Full Stack developer in the team, I got the opportunity to pioneer BDD.
- Successfully implemented BDD in my project and convinced team members and management about its advantages.
- Was the newest in the team but was the first one to travel internationally (Erlangen, Germany) as I created my good technical and professional space.

#### Skills –

**Angular JS 1.6, HTML 5, CSS 3, Bootstrap 4, Visual Studio, C# (.NET Framework 4.5), SQL, TDD, BDD, Selenium, Protractor, Karma, Jasmine, GIT, Azure, Agile, Entity Framework, Lambda Expressions**

### **Software Engineer, Mindfire Solutions**

*11/2013 - 12/2015*

#### Responsibilities & Achievements

Worked on two dedicated projects (E-Commerce and Golf Tournament Management) as a Full Stack Developer.

#### Skills -

**JavaScript, jQuery, HTML 4, CSS 2, Bootstrap 3, C# (.NET Framework 3.5), SQL Server.**

### **Qualifications**

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#### **Middlesex University**

*2023 – 2024*

##### **Master's degree**

Data Science

#### **Dr. A.P.J. Abdul Kalam Technical University**

*2009 – 2013*

##### **Bachelor's degree**

Information Technology