

Venkata Surya Teja Matcha

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Graduate Research Assistant (Former SSE - Freshworks)

I am a graduate student pursuing Master's program in CS at Old Dominion University. As well as, I have 7 plus years of experience in front-end development using Javascript, HTML5, CSS3, ES2015, ES6+, React JS, Ember JS, Typescript, and AJAX.

Education

Master's in Computer Science, Fall 2021 - Spring 2023 (Expected), ODU, VA, USA.

Bachelor's in Engineering 2012, Electronics Design and Engineering, IIIT D&M Kancheepuram, India.

Work Experience

Graduate Research Assistant	08/2021 to
<i>Old Dominion University</i>	current

- I am currently involved in Aggression Detection Research Project, Where we interface with Wearables(Fitbit) and Mobile apps, To collect various hand movement axis data, And correlate this with Medication data to find patterns of behavioral changes.
- Built end to end systems for ODU websites, with Frontend in Angular and React, And Backend in Java's Spring boot and Node's Express Js

Senior Software Engineer Front-end – Freshworks Pvt Ltd.	01/2021 to
<i>Freshvisuals - Freshworks Analytics</i>	08/2021

- I am currently involved in migrating **plotly** components to **highcharts**. I write unit-tests in **Jest** and **Enzyme**. To cover all possible edge cases as well as happy case scenarios. And then migrate one chart, and run tests across all product specific components that we have. And commit the code.
- Some of the High charts features I have migrated to are **Bubble**, Funnel, HeatMap.
- Other work includes exhaustive peer review of Git Pull Requests, Write integration & unit tests and maintain the branch coverage at more than 80% for a new feature.

Tech Stack - React, Redux, Highcharts, LocalForage, Plotly.

Senior Software Engineer Front-end – Freshworks Pvt Ltd.	11/2018 to
<i>Freshworks CRM(formerly freshsales) - A Sales CRM.</i>	01/2021

- At Freshworks CRM, I was scaling the product from an SMB product to an Enterprise ready product.
- My primary work in Freshworks CRM was to develop UI for Freddy, the AI/ML bot, in **Ember JS**. Through Freddy, customers are able to identify related entities better, predict deals that are nearing closing/ going cold, Predict if a customer has appointments or meetings and reschedule sales activities. Some of the features I built are :
 - Deal Insights, Contact Scoring, Sales sequence email reminder, Dedupe, Email calendar suggestions, Email template multi-tag search select, Zoom integration for meetings, CRM Analytics tabs iframe integration, And Sales-tax compliance.
- Built Freshworks CRM outlook Add-in in **React**, with the help of **TypeScript** and Microsoft's UI **Fluent** library.
- Participated in Appathon 2019, In which I coded the UI for an Interactive Assistant for Freshworks CRM, I built speech to text recognition and text to speech translator interface using browser inbuilt speech and text APIs.

Tech Stack - React, Fluent UI, TypeScript, Ember JS (Framework), Highcharts.

Senior Associate – Cognizant Technology Solutions	02/2018 to
<i>Student Achievement Manager (SAM)</i> – Houghton Mifflin Harcourt.	11/2018

- Migrating a Flash client Application to React-based SPA together with **Redux-Saga**, **Immutable JS**, **Jest**. Primary tasks being Leading the team efforts on creating and improving jest enzyme test cases.
- Secondary tasks were to develop the Books tab, consisting of customizable search, Filtering/Sorting of collection, Quiz management.

Tech Stack - Redux Saga, Jest, Enzyme.

Senior Associate – Cognizant Technology Solutions	04/2016 to
<i>Enterprise Admin Dashboard (EAD)</i> – Pearson Publications Pvt Ltd.	01/2018

- **Migrated** build system from **Webpack 1** to Webpack 3.
- Lead a 5-member UI team on designing, unit-testing, and developing the SPA in React, **Redux-thunk**, Jest, and SCSS. Discussions were done on deciding usability and user accessibility features.
- Worked on setting up route-based code-splitting of application code and As well chunking of vendor libraries. Introduced cache-busting of static assets, (JS, CSS). Worked on improving the landing page's time to first paint, Reducing the time to first interactive by **30%**.
- Worked with Jest snapshot and unit testing, Integrated **pre-commit** scripts. Improved security and accessibility of the EAD web app. (Incorporated Accessibility checks).
- I did Proof Of Concept(POC) on the EAD web to have the offline capability, cache redundant API requests, fast load even over 3G, by using **PWA** architecture(workbox).

Tech Stack - React, Redux thunk, Redux Form, Pearson components(Css framework), Jest, Enzyme.

Associate – Cognizant Technology Solutions	08/2013 to
<i>Medicaid Management Information Systems (MMIS)</i> – Xerox Corporation	04/2016

- Built web pages for a healthcare form-based SPA in AngularJS. Built custom decorator directives.
- I converted prototype designs into **Angular JS** code, along the way to integrate UI with web services.
- Built a local mock web server based on Node JS and Express JS. This helped bridge the gap between API service availability.

Tech Stack - AngularJS, Bootstrap.