

# Avinash Naik Kethavath

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## ROLE AND OVERVIEW

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- Playing a major role in the development of core features of the enterprise SaaS product.
- Playing a key role in bringing the customer defects down.
- Providing technical, functional guidance and design, documentations to the teams where needed.
- Providing high quality code and writing up tests for provided code in test driven development fashion.
- Working and participated in agile development process and techniques.
- Collaborating with teams to resolve, troubleshoot and optimize performance of complex software systems.
- Collaborating with QA team for testing strategies, automation and implementation.

## EXPERIENCE AND PROJECTS

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- **Sumtotal Systems, LLC** Hyderabad, India  
*Software Engineer II - Full Stack Developer* *July 2019 - Present*
  - **Activity Search Optimization:**
    - To achieve faster response time to view activities for a user in enterprise search, re-structured the architecture to use Apache Solr's index instead of database cache which improved solr server performance by 5% on a 1000cc test, not only enterprise search got benefited but modifying logic in SQL procedures accordingly increased database server performance by 8% on a 10000cc test.
  - **Building a work-flow for registrations:**
    - Built a new work-flow where it simplifies the registration process and also provided e-commerce facility in that page for a particular type of activity.
    - We used AngularJs, Jasmine(for tests) for front-end, C# for back-end and Redis for caching.
  - **Activity Management Micro-service:**
    - Micro-service which manages an activity. It consists of CREATE, GET, and UPDATE REST APIs. Behavioral design pattern is used to maintain the code and helping developers to understand the logic.
    - We used .NET Core, Fluent Assertions, and XUnit(for tests), Cassandra for storing few other information.
    - Also ended up writing some code for UI(using ReactJs library) where the micro-service apis are used.
  - **Content Management Micro-service:**
    - Micro-service which manages content i.e. urls, files, packages. It consists of CREATE, GET, and UPDATE REST APIs. It is used while activity creation. Participated end-to-end in this project.
    - We used .NET Core, Fluent Validations, Assertions, XUnit(for tests).
  - **OneClickDevEnvironmentSetup:**
    - As increasing in micro-services in organization there were multiple projects, along with those database needed to be configured by a developer, which is tedious process, to overcome this - We a team came forward with a automated solution where developer needs to just do a one click, all the required projects will be configured.
    - We used power-shell scripting to configure projects and database, and create hosted applications as docker images which are hosted in Linux(as a virtual machine).
  - **Assignments Micro-Service:**
    - Manages assignments for a larger audience. On going project.
- **Tresm Labs Pvt. Ltd** Hyderabad, India  
*Intern* *May 2018 - Jul 2018*
  - **Video Call Application:**
    - An application which allows you to setup a peer-to-peer connections for a video call from caller browser to callee browser quickly and easily using open-source WebRTC project. It was hosted and with-in the employees tried to connect around 4 people, with good quality video.
    - In particular I used NodeJs and Javascript for completing this application.
  - **Automatic Speech Recognition:**
    - Build a Telugu language model developed as a proof of concept built using open-source Kaldi Tool-Kit. Kaldi toolkit. Created audio files for the project with the help of employees in the company. Used them for training and testing the model.

- **Projects**

*To showcase*

Hyderabad, India

*Dec 2020 - Present*

- **Infinite Scrolling Page:**

- Using ReactJs built a page where it uses Unsplash API and shows the post information as a infinite feed.
    - Here is the github link for code: <https://github.com/kevinavi/infinite-feed-react>

- **Mathematical Expressions:**

- Created a small micro-service where it handles calculating of mathematical expression and usage of operators by a user using ExpressJs, Mongoddb and Mocha(for tests).
    - Here is the github link for code: <https://github.com/kevinavi/node-js-math-expr>

## TECHNICAL SKILLS

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- **Languages:** HTML, CSS, Javascript, C++, C#, SQL
- **Databases:** MSSQLServer, NoSQL[Redis, Mongo, Cassandra]
- **Frameworks:** ReactJs, AngularJs, NodeJs, WebRTC, Gulp, TortiseGit, Jira, Fluent Validations
- **Testing Framework:** Jasmine, Fluent Assertions, XUnit
- **Toolkit:** Apache Solr, Kaldi

## AWARDS

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- **Ideathon Award:** Won 1st prize for creating a automated solution to configure projects and database to ease a developers life at Sumtotal.
- **Spot Award:** Reward for playing a major role in Activity Search Optimization project.
- **Spot Award:** Reward for performing an outstanding job in handling Activity Management Micro-service work.

## REFERENCES

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- **Vamsi Krishna Yeluri**  
Chief Executive Officer  
NUACEM[Tresm Labs] , Hyderabad.