

## Murugan Vengkadaeswara

B.E computer science and Engineering

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## Profile

Experienced Web Developer adept in all stages of advanced web development. Adept in making key decisions and working with other professionals to achieve goals and solve problems.

Able to effectively self-manage during independent projects, as well as collaborate as part of a productive team.

Experienced with the latest cutting edge development tools and procedures.

## Employment History

1. Full Stack Application Developer at **IBM** Chief Information Office (CIO) from Feb '22 to present.

2. Software Engineer at TestYantra software solutions from Aug '20 to Feb'22.

## Skills

Languages	: Java , Javascript , Typescript
Frameworks	: Spring , Spring Boot , Hibernate , Angular , Carbon , Bootstrap
Library	: ReactJS
WebServers	: Tomcat , openliberty , ExpressJS
Codequality tools	: SonarLint , SonarQube , ESLint , Contrast scan
IDE	: IntelliJ , Eclipse , Vscode , PyCharm
VCS	: Git
Build tools	: Maven , Gradle
Other tools	: Postman , Jupyter notebook
Testing frameworks	: Junit , Karma
Other skills	: IBM Cloud , AWS , Python (beginner)

## Education

- Bachelor of Engineering (Computer science and engineering)  
From University college of engineering ,Trichy (BIT campus) with 68 %.
- 93 % and 93.1% on HSC and SSLC respectively from Tamilnadu state board.

## **Roles and Responsibilities:**

- As a Full Stack Application Developer, I design, build, manage, and deploy web applications both collaboratively and independently.
- I code in both front-end and back-end technologies and work closely with cross-functional teams to understand requirements.
- I oversee the entire development lifecycle, deploy applications on cloud platforms such as IBM Cloud and AWS and maintain their performance post-launch.
- I combine my technical expertise with strong problem-solving skills to deliver high-quality solutions that meet user needs.
- My work primarily involves translating client needs into actionable stories.

## **Experience Summary**

- 4+ years of experience as a Full Stack developer.
- 2+ Years of relevant experience in Angular development
- 1.5+ Years of relevant experience in react development
- 4+ experience on spring and spring boot applications
- Extensive hands-on experience in Java, Spring, Angular, ReactJS, ExpressJS, and various databases (MySQL, PostgreSQL, IBM DB2) with a focus on complex design, unit testing (JUnit, TDD, Mockito), and PCI-compliant payment systems.
- Proficient in implementing NLP models for classification, data analysis, and predictions using IBM DataPak, IBM Watson Studio and Python in Jupyter notebooks.
- Skilled in chatbot implementation with IBM Watson, containerization using Docker, CI/CD with Jenkins, and single sign-on (SSO) integration.
- Adept with AGILE and have been using JIRA since the start of career.

## **Skills summary**

- Good knowledge in Java, Collections, Exception Handling, J2EE, JDBC, Data structures, File handling. MySQL, PostgreSQL, IBM DB2, RDBMS, Hibernate, ORDBMS, Hibernate mapping.
- Angular, ReactJS, TypeScript, Javascript, HTML, CSS, (Willing to learn & work on any other frontend frameworks), ExpressJS for UI deployments.
- RESTful web services, Spring core, Spring MVC, Spring Boot, Spring Security, web app development, Jersey (JAX-RS)
- Shallow knowledge in ReactNative.
- Linux, Windows, Bash and Shell scripting.

- Excellent in problem solving and aptitude
- Good at Debugging.
- Very much interested in learning new technologies , Building and maintaining quality web applications.
- Basic Knowledge in AI , ML , Python,numpy,pandas,Jupyter notebook, IBM Watson.
- Completed AGILE certification in IBM and have been using JIRA and attending scrums regularly.

## **Project Experience (from TestYantra)**

### **1. File generator / File mapper**

Description :

A file generator which requires reading a csv into In memory database and querying appropriate results and writing appropriate results into another file according to the specs.

Technologies used : Java , H2 , JDBC.

Roles : Design , Development and Dev Testing

### **2. Account hierarchy :**

Description :

A specific user account that must support having child accounts and any properties of the child account should reflect (such as accounting balance , etc. ) to the parent account. Altered the data model.

Technologies used : Java , Mysql , ReactJS.

Roles : Development, Dev Testing ,Design (Partial with leads)

### **3. Switch plan**

Description

A subscription should be switchable to a price plan of another product , or outside of its category.

Technologies used : Java , Mysql , ReactJS , GWT

Roles : Design , Development and Dev Testing

### **4. Payment profile CRUD to an account**

Description :

The user must be able to add, Update, Delete, Display a payment profile (Card and Echeck) which supports different payment gateways which should be PCI compliant With reactJs slider support. This has to be supported through RestAPIs too.

Technologies used : Java , ReactJS ,GWT, Mysql

Roles : Development, Dev Testing ,Design(UI)

## Project Experience with IBM

### 1. Seat Management Tool:

Description :

- Worked on developing a complex UI which has a floor map rendered using angular with dynamic seat selection operations similar to Any ticket booking platform such as BookMyShow.
- Worked on angular rx-js and developed many screens with state management and minimal API calls.
- Worked on ng-rx state management which acts as a store for application state.
- Worked on Implementing **SSO** (Single sign on) , **Chatbot** using watson
- Worked on developing multiple batches using spring batch.
- Worked on deployment setup of UI using express server and backend using open liberty.
- Trained and deployed an **NLP model** to predict similar account names with watson studio and NLP

Technologies Used : Angular , Spring boot ,PostgreSQL , Express

Roles : Development , Testing , Deployment , Design (with team)

### 2. Leave Reconciliation Portal

Description:

- Developed the whole UI from scratch using angular Written shell scripts to pull data from multiple resources and load to a DB

- Worked on utility jar that compares and corrects the data and generates the UI
- Worked on developing a chatbot (disha) using ibm watson and custom made chat box UI using angular with Draggable chat icon on screen.
- Written REST-API's using spring boot and deployment setup of UI using express server and backend using open liberty.
- Delivered the whole application with compliance and without any vulnerabilities.

Technologies Used : Angular , Spring boot ,IBM DB2 , Express

Roles : Development , Testing , Deployment , Design

### 3. Extracurricular Activities:

- Participated in CIO - **hackathon** as a team and developed a tool to which predicts employee attrition using Jupyter notebook , Python , Spring boot , angular , chartJS , IBM data pak
- Participated in an event called **ideathon** and helped people to solution their ideas into a working app.
- Participated in **Bugsmash** events