

BHARGAVI NADENDLA

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Portfolio: <https://bhargavinadendla.github.io/>

PROFESSIONAL SUMMARY

- 3 years of experience in developing Enterprise applications with **Java** and **J2EE** technologies, knowledge in Client-Side Designing, front end modules and Validations using JavaScript frameworks **Angular** and **React**
 - Worked on developing Model View Controller (MVC) Architecture based applications using **Spring Framework** with various **Java/J2EE design patterns**
 - Experience working with **Microservices Service Oriented Architecture** using **Spring Boot**
 - Experience using **Spring Boot** in business layer for **Dependency Injection**, **AOP**, transaction management using **Hibernate** as a persistence layer
 - Worked with **Hibernate/JPA** for integrating legacy databases, writing custom queries with **JPQL/HQL**
 - Experience in designing and developing interactive User Interface for web applications using **HTML5**, **CSS3**, **JavaScript**, **Bootstrap**, **Angular** and **React**
 - Working Knowledge in implementing Component life cycle architecture, Forms, Events, store actions in **React-Redux** app to handle real time data, installing React Router, Thunk Redux for API calls in **React JS**
 - Extensively worked on core Java concepts like **Multi-Threading**, **Exception handling**, **IO Handling** and **Collections Framework**
 - Experience in SQL working with databases such as **Oracle**, **MySQL**, **MS SQL Server**
 - Expertise in **Agile** Software Development Methodology
 - Worked on creation of **Docker** images, Containers, push/pull and on integration with Spring Boot
 - Extensively worked with different IDEs **Eclipse**, **IntelliJ**, **Visual Studio Code** for debugging, using Java coding standards
 - Sincere, Detail-oriented, well-organized and an enthusiastic team player
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EXPERIENCE

Software Engineer Intern

Open Learning Exchange, Cambridge, MA

Aug 2018 – Feb 2019

Description: PLANET Learning is a generic e-learning system that is designed to improve early education across communities. It involves computerizing all the different types of learning resources such as library resources, enrolling in courses, taking tests, receiving feedback in the form of surveys, keeping track of student's performance and many more. The system is developed with Angular, HTML5, CSS3, CouchDB

- Built the user interface of the Single Page Application with **Angular Material Design** and **Typescript**
- Implemented HTTP requests using **RxJS** Observable library to handle multiple values over time
- Experienced in using all **Angular 7** features like Template driven and Reactive forms, Pipes, Directives, Components, reusable Custom Directives, Dependency Injection, Routing, Template and Data binding, Event Emitting
- Working knowledge of front-end optimization and performance techniques
- Worked with **CSS 3** and **Bootstrap** to create responsive web designs for multiple web pages
- Used **CouchDB** for offline data storage, synchronization and building the **RESTful Web Services**
- Participated in the Continuous Delivery process to support building of **Docker** Images
- Followed **Agile** methodology practices that involved **scrum** meetings and bi-weekly sprint review

Technologies: Angular, TypeScript, Apache CouchDB, Vagrant, Docker, Agile (Scrum), HTML5, CSS3, Git

Software Developer Intern

University of Missouri-Kansas City, MO

Mar 2017 – Aug 2018

Description: Involved in the development of internal University applications delivering course activities, training, student academics, and career events via Software as a Service (SaaS) deployment. Worked on developing the applications that handle large volumes of data. The system is developed using J2EE technologies, Spring, Web Services and Angular.

- Worked on **full stack Java development** using **Spring MVC framework, Angular4, Spring Hibernate, HTML5, CSS3, Bootstrap**
- Involved in the complete SDLC life cycle in an **Agile** environment
- Utilized **Core Spring MVC Framework** for **Dependency Injection/IOC** of components as well as transaction management
- Worked on implementing **Microservices, Service Oriented Architecture (SOA)** with JSON based RESTful Web Services using Spring Boot
- Designed **Responsive Web Applications** with progressive enhancement and graceful degradation
- Responsible for developing **stateful** and **stateless** session beans for developing business logic.
- Designed user interface screens with **Angular** and **HTML5**. Used **Angular Validations** for client-side validation, **CSS3** for further support.
- Designed and developed **abstraction** between presentation layer (**Angular, Spring REST**), Webservices layer, business layer and data access layer (**Hibernate**) using **Spring dependency injection (DI/IOC)**.
- Used **Oracle 11g** as database and integrated with Hibernate.
- Used **Angular services** to organize and share code across the application
- Used **Angular custom directives** to route event to event handler functions, perform data binding, associate controller/scope with a view
- Implemented the application using the concrete principles laid down by several **Java/J2EE Design patterns** like **Factory Pattern, MVC, Session Facade, Singleton, Data Transfer Object (DTO)** and Service Locator.
- Used Confluence to maintain project documents and **JIRA** for bug-tracking
- Used **Git** as a Version Control Management

Technologies: Java 8, Spring MVC Framework, Angular 4, Spring Core, Spring Boot, Spring JDBC template, JavaScript, Hibernate, Visual Studio Code, HTML 5, CSS 3, Bootstrap, Git

Software Developer

Incrivel Software Solutions, Hyderabad

Jan 2016 – Dec 2016

Description: The project aimed to develop is the case management system used in various domains like health, education and finance etc. A browser-based business process configuration solution that handles all aspects of case management. This involves various functions that are central to virtually all case management systems like filing information, grants and contributions, lodging a complaint, making an application etc.

- Involved in complete project life cycle design, development, implementation, integration, and validation
- Built **RESTful Web Services** with Spring features like **Spring MVC/ Security/ Transaction**
- Implemented MVC architecture with **Spring boot** and Object Relational Mapping (ORM) in the persistence layer with **Hibernate** to map the relationship between tables and entity classes
- The project involved extensive use of the different **Spring** features including **Spring MVC, Spring DAO, Spring AOP** and **Spring Templates**

- Used **MySQL** as database and implemented **Hibernate caching, lazy loading** and created multiple threads for data processing.
- Used **JMS API** to mail notifications upon the system related problems and completion of backend processes
- Worked with version control tools like **GIT** and ticket tracking platform like **JIRA**
- Implemented Maven for build, dependency management, and central repository
- Active in coding **core Java implementations**, collections, generics, exception handling and multi-threading

Technologies: Java, Spring MVC, Hibernate, MySQL, Maven, REST Web services, Agile (Scrum), Tomcat, JIRA

EDUCATION

University of Missouri-Kansas City, MO

July 2019

Master of Science in Computer Science | GPA: 3.77/4.0

Thesis: (Advisor: Dr. Yugyung Lee) Intelligent Hearing System with Android and Deep Learning

TECHNICAL SKILLS

- **Programming Skills:** Java 8, Functional Programming and Lambdas (Java 8), Python, Java Script, TypeScript, SQL
 - **Databases:** MySQL, Oracle, MS SQL Server, Firebase, MongoDB, CouchDB
 - **Mobile Development:** Android, Ionic
 - **Web Technologies and Frameworks:** Spring Boot, Spring MVC, Microservices, Hibernate, J2EE, React 16.8, Angular 7, HTML 5, CSS 3, Bootstrap, Agile, Scrum, AWS
 - **Tools:** Git, Maven, Gradle, JIRA, Jenkins, Android Studio, WebStorm, IntelliJ, Eclipse, Visual studio, Anaconda
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PROJECTS

Intelligent Hearing System and Emotion Detection from speech (Thesis)

- Records the audio around the user, extract features and provide necessary information in the form of text, images
 - Built Deep Learning neural networks CNN for emotion detection from audio, LSTM for emotion recognition text
- Technologies: Java, Android, Apache Spark, Deep Learning

IBM Log Analytics (Hackathon Fall 2018 Winner)

- Applied NLP techniques for pre-processing one million real-time logs and employed regex to clean them
 - Used topic modeling to visualize clusters of logs and RNN to predict the occurrence of errors in advance
- Technologies: Python, Natural Language Processing, Semantic topic modeling

Community Connect Forum

- Online discussion forum for communities featuring questions and answers on a range of topics
- Technologies: Java, Spring Boot, Hibernate, MySQL, JWT, Spring Security

Get on Wheels

- A Hybrid application that is a one-stop source for places of interests like restaurants, malls, movies, etc.
 - Allows the user to find the nearest parking lot available and reserve it.
- Technologies: Ionic 3, Angular 4, Node.js, Firebase, SMTP by Firebase, REST APIs

Twitter Analysis for Big Data

- Processed unstructured tweets on movies and found insights by querying the data with Spark SQL, Spark RDDs and visualizing its analytics
- Technologies: Java, Apache Spark, Twitter Streaming API, HDFS