**Ang Thukten Sherpa | Full Stack Java Developer**

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Experienced and versatile **Full Stack Developer** with over **7+ years of experience** in designing, development, testing, documenting, implementing with **Object Oriented, J2EE** and **Client server technologies** who can **learn** **quickly** and **accomplish objectives** in a **fast paced developer environment.**

**Professional Summary**

* Expertise in the **Core Java Concept** including **OOP design, Multithreading, Annotation, concurrency, generics, exception handling, data structure and algorithms.**
* Deep understanding in **design, development** and **implementation** of **Model-View-Controller-framework**s using **Spring MVC, spring security, Web Flux, Spring Cloud, Inversion of Control(IoC)** and **Spring Microservices.**
* Developed presentation tier using **JSP, Java Script, HTML,** and **CSS** for **manipulating, validating, customizing, error messages to the User Interface.**
* Use **Angular** to **optimize WebSite performance** using **features** like **Angular’s** **Single Page Application, binding, interpolation, property binding, event binding,** and **2 way binding, life-cycle hooks, dependency injection** to **subscribe** to **observable service objects** received in the **HTTPClient Module.**
* Created **RESTful web services** with spring, **ORM tools** with implementing Spring Security using **spring boot Auth** **server** which worked with **JWT** and **OAuth2.**
* Created **Test Driven Deployment writing test cases** using **Junit** and **Mochito** and utilizing **Postman** and **Swagger** to create **API documentation.**
* Design and deployment **of Microservices** with **Spring Boot** using **highly cohesive** and **loosely coupled methodology.**
* **Created queries to MySQL databases** using **Java, MySQL** as well as created **Model classed in Java** and using **Hibernate** as an **ORM**
* **Experienced** in all aspect of **Software Development LIfe Cycle (SDLC)** phase including **requirement gathering** through client **interaction, documentation, development, integration, testing, configuration, and product support**
* Worked on **multiple Docker Images** for **Microservice Development** to run multiple **instances** of a **service.**
* Used **JIRA** for **bug tracking** and project management and worked around **Agile Methodology**. This includes **stand-ups, code review, software/technical handover** and taking part in daily **SCRUM call** meeting updating the team progress
* Worked on **GIT** for **version control**, build tools such as **Maven** to manage project build, reporting and documentation and **continuous integration and deployment tools such as Jenkins.**
* Working knowledge of **AWS services** like **EC2, RDS, S3 buckets, AWS Lambda function, SNS Topics, Route 53, load balancing and Auto Scaling.**

**Skills Chart**

|  |  |
| --- | --- |
| **Languages** | **Java, JavaScript, TypeScript, C++** |
| **Back End Technology** | **Spring Boot, REST, Oauth, Spring, JSP, MVC,** |
| **Database/ORMs** | **MySQL, MongoDB, AWS RDS, Spring Data JPA, Hibernate,** |
| **Front End Technology** | **HTML, CSS, Bootstrap, Angular, TypeScript, JavaScript** |
| **AWS** | **EC2, S3, RDS, Lambda, Route53** |
| **PM/Version Control** | **Github, Jira, Docker, Jenkins, Maven** |

**Professional Experience**

**United States Patent and Trademark-Alexandria, VA** **May 2021 – present**

**Role: Java Developer**

The United States Patent and Trademark Office (**USPTO**) is the federal agency for granting **U.S. patents** and **registering trademarks**. The primary services that the agency provides include **processing patent** and **trademark** **applications** and disseminating patents and trademark information. As a **Full Stack Java Developer**, my primary role is to create and update patent applications where the examiner works on the applications. Also, I assist in solving technical examiner tickets where I use **spring boot** and **Spring Cloud** using **Microservices** along with **Hibernate, JPA** to **connect** with **MySQL database.** I also connect **backend controllers** in **Spring Boot REST handling web services using API JSON** to **front end services** in **Angular** using the **HTTPClient Service Module to consume services.**  I also create **model objects** using **Spring Data JPA.**

**Responsibilities:**

* Involved in the **Agile Software Development LifeCycle**, participated in weekly-stand-up meets & **sprint planning**.
* Involved in all the phases of the **Software Development Life Cycle process (SDLC)** including **development, design, testing, documentation** and **deployment** of the **Auto** **Loan Credit Bank Payment Module.**
* Use the **Lambok Tool** to create **DRY Java code**.
* Configure **Spring Data JPA repositories** to implement **Hibernate** framework and invoke stored procedures for complex queries to provide customers **Credit Back payment history** for sending notification to customers.
* Developed **services** and implemented **SOAP** architecture using **SOAP** and **JAX-WS** to publish **WSDL** **endpoints**, and used **SOAP** for exchanging information over **HTTP**.
* Created **Models** in **Java** andLeveraged **Spring Data JPA** with **hibernate** and built-in **CRUD** operation out of the box to communicate with **MySQL databases.**
* Developed **Data Access Object (DAO)** for **additional, modification** and **deletion of records** using various specifications.
* Experience creating **Angular Components** and using **MVC** hierarchy: **Views: CSS,HTML Component Files, .TS files** to act as a **Controller**, and **HttpClient Module** to act as **Models.**
* Use **Angular components** to provide **Structure** for **scalability** and **distribute load** from the **back end rendering** to **client side rendering**.
* Pass **data** from **Component Controllers** to **Views** in **Angular** using **Interpolation.**
* Pass **data** between **Components** using **Services** and **Parent Child relationships.**
* Create **front end** using **CSS, HTML, JavaScript, TypeScript,** and **Bootstrap.**
* Create **Models** in **Java** using **principles** of **OOP: Encapsulation, Inheritance, Polymorphism,** and **data Abstraction.**
* Manage **asynchronous behavior** in the **front end** using **Typescript** for **Angular** using **Promises, Observables, Callback Functions,** and **Higher Order Functions.**
* Used **Angular** to **create views** usingintegrated **custom directions, custom** **pipes**, **event binding, data binding and injection** for building the **GUI**, and worked on the **HTML5, CSS3** and **bootstrap** to make the **UI** look better.
* Used **Angular’s Single Page Application a**nd created **Services** in **Angular** using the **HttpClient Service Module** to connect with the **SpringBoot Java Backend**.
* Implemented **AWS lambda** **function** to send **notifications** for developing **AWS platform** based **API’s** and also deploying the application to **AWS server.**
* Created **mock objects** and services for testing using **JUnit** and **Mochito** framework.
* Used **GIT** for **Version Control** and **JIRA** for **bug tracking** and **project management.**
* Established consistent **code across team members** with **Git** and **Github** repositories as well as **constant communication** on **Slack** and **JIRA.**
* Use **Maven** for **building,** and **Jenkins** for **Continuous Integration.**
* Run **microservices** in **Docker Containers** to **AWS EC2** and created **Docker Images** for **Docker Hub.**
* Take calls and emails from clients-Provide **IT support** for clients-Performs IT work remotely - Act as a triangle between **Scrum master** and **business side**.
* Used the **ServiceNow** ticketing system to track and manage calls and chat assistance.
* Identifying problems like **authentication**, **annotation, text reprocessing, scanning, layout** and escalated situation requiring urgent attention.
* Performed **smoke testing** to find error and bug in application before going live.
* Performed **database password** changed on quarterly basis.
* Performed system analysis, **testing** and **debugging** to defect root cause.
* Participated in day-to-day meeting, status meeting, **sprint** meeting, strong reporting and effective communication with **scrum master, service desk** and **developers**.

**Environment: Java8, J2EE, Spring Boot, Spring Cloud MicroServices, Zuul and Eureka, Docker, AWS, Lambdas, Spring MVC, Spring Data JPA, MySQL, RESTful Web Services, Angular, Bootstrap, JavaScript, HTML and CSS, Git, Maven, JIRA, Kafka**

**UCHealth**, Denver, CO **November 2020 – April 2021**

**Role: Full Stack Java Developer**

**Description: UCHealth** is a **leading health benefits company,** headquartered in **Aurora, Colorado** dedicated to improving the community and making **healthcare plans** simpler for **people.** As a **Front End Angular developer,** I develop **Components** and **optimize** the **website** by using **TypeScript/JavaScript/CSS/and HTML** in **Angular** extending processing in the **browser** by using **Angular’s Single Page Application feature** and **dynamic router** reducing the **load** in the **backend** whilecreating a **friendly User Interface.** I configure the **API** in **Angular** by **registering services** inthe **Root App Module** and **writing logic** in the **HttpClient Service Module** to get **APIs returned** from the **Java Spring Cloud Backend**. In **Angular Component files**, I use the **subscribe** **method ( )** that **listens** for **Observables** being **injected** in **local** and **global components** using **Dependency Injection** where I want **services** to appear. In contrast, I develop a **Quote Generating Module** in the **Java Spring Boot backend** using **microservices** **architecture** for creating **loosely coupled architecture** **independently scaled.** I set up **Quotes** usingthe **Eureka Client** and **Eureka Discovery Service** connecting to **External** **APIs** from different **insurance policies**. Therefore, APIS are sent to the Frontend where Users can select and make **changes** to **coverage benefits,** verify **premiums** before **choosing** a **plan**. Once the **quote** generates, they get an **email notification**. The **Java backend web application** is built on **J2EE Technology consuming** secure **REST APIs** in a **Spring Cloud Microservices environment.**  I also configure the **AWS Lambda function** and **S3 bucket** for **SNS notification.**

**Responsibilities:**

* Involved in all aspects of **SDLC** creating **a GUI interface** & **Web pages** using **HTML 5, CSS, TypeScript, Angular, Bootstrap,** and **Angular Material.**
* **Designed a logic** in **Angular Components** using **interpolation, property binding, event binding,** and **2 way binding, life-cycle hooks,** and **dependency injection** to create **reactive and template driven forms.**
* Created **method** in **Angular Components** that **subscribe to services** being returned as **Observation** from the **HTTPClient Service Module.**
* Worked on **Data Structure** like **Array List, Hash Map** and implementing **Sorting Algorithms.**
* Created **Models** or **Services in Angular** in the **HttpClientService Module that get or post data** betweenthe **component controllers** and **databases.**
* **Deployed to AWS** creating **EC2 instances, IAMs** and built **S3 Buckets** and managed policies **of S3 Buckets** and used them and Glacier for storage and back up on **AWS.**
* Created **RESTFUL API** connections between **Angular** and **Java SpringBoot** and used **Swagger UI** for **API documentation.**
* **Registered microservices with secure Eureka discovery service and configured Zuul API Gateway with spring security and JWT for microservice method level security,**
* **Tested endpoint** using **Postman** to ensure the **right functionalities** of the **endpoints**.
* Used **Spring MVC**  to implement **Spring Controller** handling the created **models** and **views**.
* Used **Java Spring ORM** to implement models to represent the entities and create the relationship between them using **annotations and map** them to the **MySQL** using **Hibernate, Spring Data JPA.**
* **Developed the service layer classes** to separate the **database layer** and achieve **loose coupling** between the **controller** and **Data Access Object.**
* Use **Kafka** for **messaging** to create **producers/consumers for API.**
* Ran **microservices in Docker Containers** to **AWS EC2** and created **Docker Image** for **Docker Hub.**
* Used **Sleuth** and **Zipkin** for **distributed tracing** and **aggregated Log files** with **ELK Stack.**
* Used **GIT** for version control and **JIRA** for bug tracking and project management.

**Environment: Java8, J2EE, Spring Boot, Spring Cloud MicroServices, Zuul and Eureka, Docker, AWS, Lambdas, Spring MVC, Spring Data JPA, MySQL, RESTful Web Services, Angular, Bootstrap, JavaScript, HTML and CSS, Git, Maven, JIRA, Kafka.**

**Canvas Credit Union, Lone Tree, CO September 2019 - October 2020**

**Role: Full Stack Developer**

**Description:** **Canvas Credit Union,** headquartered in Colorado, is a **Bank** that provides a range of deposit, lending, insurances, and online banking products and services. As a **Full Stack Java Developer,** I worked with the IT teams to create a **Canvas Credit Union Accounts Payable Management Application** for the **bank’s employees**. This application helped the **Accounts Payable Department** to perform functions like **recording, tracking payments due date,** and **last status of payment** for **Accounting** and **Accounts Payable Department.** I also worked on a **Loan Repayment Module** for an **Automobile Credit Line** for their **Auto Loan Department** connecting **APIs** to loan **Car Dealer** **Partners.** This **feature** generates **payment dates automatically** by **considering day, month, year information** of **payment** and **payment** **amount formalized** in repayment lines by using **Spring Boot** **Cloud** and **Microservices**. I also worked to move the backend infrastructure in **Spring Boot** to **Cloud Environment** using **AWS.**

**Responsibilities:**

* Involved in the **Agile Software Development LifeCycle**, participated in weekly-stand-up meets & **sprint planning**.
* Involved in all the phases of the **Software Development Life Cycle process (SDLC)** including **development, design, testing, documentation** and **deployment** of the **Auto** **Loan Credit Bank Payment Module.**
* Use the **Lambok Tool** to create **DRY Java code**.
* Configure **Spring Data JPA repositories** to implement **Hibernate** framework and invoke stored procedures for complex queries to provide customers **Credit Back payment history** for sending notification to customers.
* Developed **services** and implemented **SOAP** architecture using **SOAP** and **JAX-WS** to publish **WSDL** **endpoints**, and used **SOAP** for exchanging information over **HTTP**.
* Created **Models** in **Java** andLeveraged **Spring Data JPA** with **hibernate** and built-in **CRUD** operation out of the box to communicate with **MySQL databases.**
* Developed **Data Access Object (DAO)** for **additional, modification** and **deletion of records** using various specifications.
* Experience creating **Angular Components** and using **MVC** hierarchy: **Views: CSS,HTML Component Files, .TS files** to act as a **Controller**, and **HttpClient Module** to act as **Models.**
* Use **Angular components** to provide **Structure** for **scalability** and **distribute load** from the **back end rendering** to **client side rendering**.
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* Create **front end** using **CSS, HTML, JavaScript, TypeScript,** and **Bootstrap.**
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* Manage **asynchronous behavior** in the **front end** using **Typescript** for **Angular** using **Promises, Observables, Callback Functions,** and **Higher Order Functions.**
* Used **Angular** to **create views** usingintegrated **custom directions, custom** **pipes**, **event binding, data binding and injection** for building the **GUI**, and worked on the **HTML5, CSS3** and **bootstrap** to make the **UI** look better.
* Used **Angular’s Single Page Application a**nd created **Services** in **Angular** using the **HttpClient Service Module** to connect with the **SpringBoot Java Backend**.
* Implemented **AWS lambda** **function** to send **notifications** for developing **AWS platform** based **API’s** and also deploying the application to **AWS server.**
* Created **mock objects** and services for testing using **JUnit** and **Mochito** framework.
* Used **GIT** for **Version Control** and **JIRA** for **bug tracking** and **project management.**
* Established consistent **code across team members** with **Git** and **Github** repositories as well as **constant communication** on **Slack** and **JIRA.**
* Use **Maven** for **building,** and **Jenkins** for **Continuous Integration.**
* Ran **microservices** in **Docker Containers** to **AWS EC2** and created **Docker Images** for **Docker Hub.**

**Environment: Java 8, Spring Boot, AWS, Hibernate, Angular, Bootstrap, HTML5, CSS, Spring MVC, Spring Data JPA, MySQL, JAX-WS, Git, Maven, Eclipse, Micro-service.**

**Janus Henderson** , Denver, CO **August 2017 - August 2019**

**Role: Full Stack Java Developer**

**Descriptions: Janus Henderson Group** is a **Global Asset Investment** **management firm** dedicated to **delivering best outcomes** for **clients** through a **highly diversified range of actively-managed products.** **Janus Henderson** is truly **global** with **Headquarters in London,** supporting **individual and institutional investors** across a **range** of **financial products, encompassing equities, fixed income, multi-asset** and **alternatives.**  Working with the **Company Website team**, we were responsible for modifying the company’s website to a **client server architecture** using **Spring Boot** and **Angular.** My team focused on building the **Financial products section.**  As a **Full Stack Java Developer**, my primary responsibility was to design the “**Equities Filtering**”on the website that allows users to see information about different **Equity** **financial products**. I designed the **front end** using **Angular Framework** writing code in **Typescript**. I also used **HTML, CSS,** and **Bootstrap**. For the **back end**, I used **spring boot** and **Spring Cloud** using **Microservices** along with **Hibernate, JPA** to **connect** with **MySQL database along** with **kafka** for **messaging.**

**Responsibilities:**

* Developed **several features** for the **financial products Module** on the **main company website** and was involved in all phases of the **Software Development Life Cycle Process(SDLC) using agile methodology**, and participated in **Daily Stand-Up Meeting, with SCRUM Master, Co-Developers and communicating** with **testers** and **resolving Tickets**.
* Implemented **modules** like **services**, and repositories if the **web application** using **Restful Web Services.**
* Used Concepts of **OOP** in **Java** to develop **models** using **Encapsulation**, **Inheritance**, **Polymorphism**, and **Abstraction**.
* Setup **Eureka discovery service, Spring Cloud Config Server** & configured **Zuul API Gateway** w/spring security & **JWT**
* Utilized the **Angular MVC structure** by creating **Components** that serve as **controllers** where logic and variables are written and evaluated in the class logic**. TS file** and passed on to the **HTML** and **CSS** files used to create **views**.
* Adopted **ng-template** and **mg-model** to create the form for **user-friendly pop-ups.**
* Developed the **Cascading Style Sheets (CSS)**, which are used for the entire site giving the site a dynamic look.
* Used **Hibernate** in the data access layer to access and update information in the database.
* Implemented **JSON Web Token(JWT)** to securely transfer claims between two **microservices** applications.
* Used **Maven** as a **build management tool** to get the required **dependencies** for the project.
* **Unit tested** individual functions by using a **TDD** model with **Postman**.
* Used **GIT**, **GitHub** and **Jenkins** as a **source control** to check-in and check-out source code.
* Deployed project with **AWS Services** with **EC2** instance, **AWS RDS+MySQL** which was used to store data in the **back end**. Configured **AWS identity Access Management(IAM)** Group for improved security.

**Environment: Java 8, SpringBoot, Microservices, J2EE, Hibernate, Maven, Jenkins, Docker, Mochito, DynamoDB, MySQL, AWS Lambda.Github, Jenkins, TypeScript.**

**Neotech Design - Taunton, MA November 2016 - July 2017**

**Role: Java Developer**

**Description**: While with Neotech Design, I worked on several projects developing new features and fixing bugs for existing applications. For one of our clients, I helped develop a social media like web application to be used by the company's employees. I worked on all aspects of the application, including working on developing a **Restful API** using **Spring Boot, Spring Security,** and **Spring Data JPA**. I helped implement the security module by overriding **Spring Boot** default configuration and by using **JWT.** Also, I used **Bootstrap** as **CSS framework** and **Angular** to adhere to the wireframes that were created for the project.

**Responsibilities:**

* Understanding Use requirements participating in **design discussions, implementation feasibility analysis both at front-end and backend level, documenting requirements.**
* Escalate the issue and risks to the concerned person and make sure we meet the **deliverables.**
* Coded **Action classes, Java Beans, Service layers, Business delegates**, to implement business logic.
* Used Struts tag libraries (like html, bean, and logic) in the **JSP pages**. Used **html form tags** for **auto-populating** related **Action Form** as specified in **action mapping.**
* Developed persistence **Layer** using **Hibernate** to persist the data and to manage the data as per requirement for the functions.
* Written stored procedures, modifications to existing database structure as required using **MySQL.**
* Involved in **debugging the production issues** and **developing Unit test cases.**
* Prepared the documentation for the **entire process** for **future reference.**
* Managed projects in **Agile development environments** and **JIRA** is used for task management.
* Experience in spring modules like **MVC, AOP, JDBC, ORM,** and Web Services using **Eclipse.,Intelij, Visual Studio.**
* Development of cloud hosted web applications and **REST APIs** using Spring Boot with embedded **Tomcat,** and used tools like **Postman/Swagger** to create API documentation.

**Environment: Java, J2EE, JDK, JSP, Servlets, HTML, CSS, Bootstrap, XML, Hibernate, Eclipse, MySQL, Data mapping, JIRA, JUnit**

**Education:**

**Columbia College Bachelor of Computer Science Denver, Colorado**