**SUNIL TIMILSINA**

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* **7 years in full software development lifecycle**: Contributed to all phases of the SDLC in fast-paced, deadline-driven environments.
* **Backend Proficiency**: Skilled in backend programming with Java, Spring, Spring Boot, Node.js, and Express.js leveraging RESTful web services, Spring Boot, and Hibernate.
* **Frontend Expertise**: Experienced with Angular, React, TypeScript, JavaScript, HTML5, CSS3, and frameworks like Tailwind, Bootstrap, and jQuery, Redux, NgRx.
* **Microservices**: Proficient in building microservices using Spring Boot, Spring Security, and Spring WebFlux.
* **Design Patterns**: Expertise in OOAD, SOLID principle, and patterns such as Singleton, Prototype, Factory, Facade, Strategy, Template, Builder, and Observer.
* **Agile Development**: Worked with Agile methodologies, collaborating closely with cross-functional and technical teams.
* **Frontend Development**: Implemented single-page applications using ReactJS, Angular, and Vue.js, managing dependencies with NPM.
* **Java and JEE Knowledge**: In-depth knowledge of Java, JEE, SOA, JDBC, JSF, JavaBeans, EJB, JMS, and ORM with Hibernate. Experienced in Oracle 9i/10g and PostgreSQL.
* **Cloud Services**: Knowledge of AWS (EC2, S3, EBS, ELB, EKS, VPC, Lambda, CloudFormation) and GCP (App Engine, VM Instances, Kubernetes Engine, Cloud Storage).
* **DevOps and CI/CD**: Skilled in CI/CD with tools like Docker, Terraform, ELK, Kubernetes, GitLab CI/CD and GitHub Actions.
* **SQL Proficiency**: Experienced in SQL with expertise in PL/SQL, Triggers, and Stored Procedures for databases like Oracle and MySQL and NoSQL in Mongodb.

Software Development Life Cycle • Java Programming • Design Patterns

• Spring Boot •Backend • Data Structures and Collections • Frontend • React JS

**Languages:** Java **Web:** HTML5, CSS3, SCSS, Bootstrap, JavaScript, XML, jQuery, AJAX, React, PHP, JSP, Servlet  
**Web Services**: REST API, Microservices, JSON, SOAP  
**Web and Application Servers:** Apache Tomcat, Weblogic, PCF **Frameworks:** Spring (MVC, Boot, Security, Data, AOP, Dependency Injection, Cloud), Laravel, JPA, Hibernate, React, jQuery.  
**Databases:** MySQL, MongoDB, PostgreSQL, SQL Server  
**Design Patterns:** MVC,Singleton, Factory, Observer, Facade, Strategy, Strategy Design Pattern

**SDLC:** Agile / Scrum, Waterfall

**Testing:**Junit, Mockito, Enzyme, RTL, TDD  
**Tools:** Eclipse, IntelliJ, Jira, ADO board, Visual Code Studio, Git, Postman, Tomcat, REST, JUnit  
**Platforms:** Windows, Linux

**Cloud: AWS** (EC2, S3, Elastic Beanstalk, SNS, SQS, Secret Manager, API Gateway, RDS, DynamoDB)

**Education:**

**Bachelor of Science in Information Technology (**2015-2018) - Pokhara Informatics College, Pokhara, Nepal - **GPA: 3.3**

**Master’s in CS: Maharishi International University** (2021-2023) - Fairfield, Iowa, USA - **GPA: 3.14**

**PROFESSIONAL EXPERIENCE**

**Insight Global: Client - WGU. Remote** **Dec - 2024 - Present**

**Full Stack Engineer**

**Responsibilities:**

Integrated **financial aid** tracking, **FAFSA**, and payment management into **WGU’s** Student Portal using Angular, Java, Express.js, and AWS ensuring real-time updates.

* Developed and integrated multiple reusable Angular components to enhance the student portal's functionality.
* Implemented Module Federation for microfrontend architecture, enabling independent deployment of financial aid modules.
* Optimized state management using NgRx and RxJS for real-time financial aid updates.
* Ensured responsive UI/UX using Angular Material and Tailwind CSS.
* Optimized application performance by reducing API response time and improving front-end load times through the use of code-splitting in React and fine-tuning database queries with Hibernate and JPA.
* Led the migration of legacy systems to a micro-services architecture using Spring Boot, which improved modularity, scalability, and deployment efficiency, reducing system downtime by 20%.
* Ensured robust security by integrating Spring Security with OAuth 2.0 and JWT for secure authentication and authorization, protecting sensitive user data across the application.

**Technologies Used:** *Java 8, Spring Boot, JavaScript , TypeScript , Angular 17 ,JQuery, IntelliJ, AWS, Postman, Oracle 19c, GitHub Actions, Junit, MSSQL, SQL Developer, Maven, NgRx,*

**Careospan Inc: Client - Northern Trust. Chicago, IL** **Oct 2023 - Dec 2024**

**Full Stack Engineer**

**Responsibilities:**

* Developed and maintained full-stack applications using Java 8 and Spring Boot for the backend, and React 18 for the frontend, ensuring seamless integration between client-side and server-side functionalities.
* Designed and implemented RESTful APIs in Spring Boot to handle complex business logic and integrated them with a React front-end for real-time data interaction and efficient client-server communication.
* Identified and resolved deadlocks in financial systems by refactoring **synchronization** strategies, ensuring smooth transaction processing and improved performance using **multithreading**.
* Aggregated and processed large datasets using datastructure like **ArrayList, HashSet** and **LinkedList**, optimizing memory usage in batch financial report generation.
* Optimized application performance by reducing API response time and improving front-end load times through the use of code-splitting in React and fine-tuning database queries with Hibernate and JPA.
* Led the migration of legacy systems to a micro-services architecture using Spring Boot, which improved modularity, scalability, and deployment efficiency, reducing system downtime by 20%.
* Ensured robust security by integrating Spring Security with OAuth 2.0 and JWT for secure authentication and authorization, protecting sensitive user data across the application.

**Technologies Used:** *Java 8, Spring Boot, JavaScript , TypeScript , React 18 , Hibernate, JQuery, AJAX, IntelliJ, PCF, Postman, Oracle 19c, Bitbucket, Junit, MSSQL, SQL Developer, Gradel, Maven*

**ITC INFOTECH: Client - Goldman Sachs. Dallas, TX Sep 2022 - June 2023**

**Backend Developer: (Payment Engineering Team)**

**Responsibilities:**

* Developed Java applications with **Kafka** for efficient data streaming, managing both streams and topics, and resolving implementation challenges.
* Built **RESTful APIs** and utilized core Java concepts like **Collections**, **Multi-Threading**, Generics, Exception Handling, and Java Reflection.
* Designed **AWS Lambda** functions for automation and managed data with Amazon DynamoDB, EC2-hosted microservices, and endpoint creation through APIs.
* Configured deployment environments to streamline development and testing processes.
* Utilized Apache **Kafka** for data pipelines and contributed to test planning and case design, including extensive unit testing.
* Enhanced system scalability by incorporating non-blocking **IO** and **multithreading** in financial reporting tools.
* Maintained and developed Angular applications, integrating Jasmine for front-end testing.
* Implemented **CI/CD** workflows with Jenkins, **GitLab**, **Terraform**, and **Docker**, while managing storage and backups in **AWS S3** and **Glacier**.

**Technology Used:** *Java 8, 11, GraphQL, Spring boot, Cloud Watch, S3, Lambda, EC2, Gitlab, Volpay, Postman, Intellij, OracleDB, DynamoDB, PL/SQL, Jira, Maven, Jenkins, Json, Microservices, Angular, Kafka, Terraform, Snowflake*

**Thulotechnology Pvt. Ltd. Feb 2020 - Sep 2021**

**FullStack Java Developer**

**Responsibilities:**

* Conducted **front-end, back-end** development for financial software .
* Involved in Developing **Micro services** to provide **Restful API** using **Spring Boot**, **NodeJS** with data persistence **ORM** frameworks like **Hibernate** and **JPA** and messaging engines
* Optimized system performance by reducing transaction response times by 15% using advanced Java **multithreading** techniques.
* Developed expertise in Java 8 features such as **Parallel Streams**, **Lambdas**, **functional interfaces,** and **filters**.
* Used Core **NodeJS**, Java with **Multithreading**, Concurrency File Handling, **I/O**, **Generics**, **Data Structures and Collections,** and Garbage Collection.
* Developed expertise in **J2EE** technologies like **Java, JSP, JMS, JAXB, JDBC, EJB.**
* Integrating Slack with **Jenkins** and other tools to receive automated notifications on build, deployment, and test results.
* Design and development of Microservices architecture using **Spring Boot, Spring Security, and Spring Webflux,** delivering scalable and high-performing solutions
* Utilizing **ElasticSearch**, **Logstash**, and **Kibana** (**ELK stack**) to centralize logs, perform real-time log analysis, and troubleshoot issues efficiently.
* Contributed to technical documentation, sharing best practices, coding standards, and architectural decisions for team members.

***Technologies Used:*** *Java, Spring Boot, Apache Kafka, NodeJS, Hibernate, AngularJS, Ext JS, CSS, JQuery, AJAX, Tomcat, IntelliJ, AWS, Postman, Workbench, GitHub, Junit, SQL, Rabbit MQ, Kafka, SQL Developer, Jenkins, ELK stack*

**Alpha Teds. Apr 2017 - Jan 2020**

**Software Engineer**

**Responsibilities:**

* Developed websites and software including e-commerce, and e- learning applications.
* Designed database tables and created ER-relationship between tables.
* Developed web pages using **front-end** technologies and integrated with APIs.
* Integrated internal and third- party APIs for multiple **Micro-services.**
* Worked with third-party vendors to identify and fix external issues impacting our **Micro-services.**
* Implemented storage and management of data through **DynamoDB**, **Snowflake** and **GraphQL**.
* Implemented Data Access layer using **DAO pattern** with **JPA** to use **Hibernate** as **ORM** tool .
* Utilized Java collections (e.g., HashMap, ArrayList) and multi-threading to efficiently handle and process large financial datasets in real-time.
* Designed and implemented transaction management using **Spring AOP.**
* Designed and implemented applications using **JSP** , **Spring MVC, Spring IOC,** Spring Annotations, Spring **AOP, Spring Transactions, Hibernate, SQL, Maven, Oracle.**
* Used Hibernate framework for back -end development and spring **dependency injection** for middle layer development .
* Applied deep knowledge of **multithreading** to optimize performance and efficiency in distributed systems .
* Handled **CI/CD** deployments to various **AWS** environments using **Terraform**.
* Refactored code to improve performance and reduce the load placed on APIs .
* Verified that robust code was delivered through the use of Integration and Unit testing.
* Assisted **QA** team with testing, documenting, and resolving bugs .
* Identified and fixed real-time issues through monitoring services such as **DataDog** and **PagerDuty**.
* Managed project dependencies and plugins using **Maven**.

***Technologies Used:*** *JAVA, Express, Node.JS, JSP, Angular, HTML5, CSS3, Spring boot, FasterAPI, Microservices, SQL, Postgres, Maven, Rest, SOAP, GraphQL, JavaScript, VSCode, AWS, Git, Scrum methodology, Jenkin*

**Academic Projects**

**Music Library(2022-Feb):** *Music collection application with authentication, authorization, and CRUD operations*

**Technology Used:** Node.JS, Angular, Express, MongoDB, Postman, GitHub, Compass, VSCode

**Course Management(2023-April):** Designed an efficient Course Management System favailabor managing, tracking of educational resources, and enhanced interaction between professor and students

with authentication and authorization.

**Technology Used:** Java 11, Spring boot, React.JS, Intellij, GitHub, Postman, Hibernate, MySql