### Sagun Pandey

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##### Full Stack Java Developer

* Competent and results-driven Full Stack Java Developer with **over 6 years** **of experience** in designing and maintaining custom-built solutions based on Java technology and related frameworks, as well as in all aspects of software development, including analysis, architectural design, prototyping, development, and testing of the application.
* Strong understanding of Object-Oriented Programming, Data Structure, Algorithms, Design Patterns, and Distributed Systems.
* Expertise in the backend development using Core Java 8+ in service layer and data access layer and using different Spring modules like Spring Core Container Module, AOP, MVC, Security, Data, and Transaction Management including SQL databases (MySQL, PostgreSQL, and Oracle).
* Designed and developed Webservices and REST Endpoints using Spring Web MVC, and Jersey following JAX-RS REST API specifications.
* Experienced in building SPA (Single-Page-Application) using JavaScript, TypeScript, HTML5, CSS3, Bootstrap, SASS, LESS, jQuery, AngularJS, Angular 2+ (Angular 6 – Angular 10), and ReactJS.
* Experienced in Agile methodology (Scrum), working with Version Control Tools (SVN and Git), implementing TDD (Test Driven Development) using JUnit 5, and in performing automation using Selenium, WebDriver and performing Behavioral driven testing using Cucumber.
* Skilled in building tools like Ant, Maven, and Gradle and using them with continuous integration tools like Jenkins.
* Expertise in Application server deployment using Apache Tomcat and Eclipse Jetty.
* Extensive experience in working on UNIX/Linux, and Windows environments.
* Able to maintain quality and ensure responsiveness of applications combined with excellent presentation and communication skills and drafting technical documentation.

**TECHNICAL SKILLS**

**Programming Languages**: Java 8+, Python, C, C++

**Frameworks and Libraries**: Spring Boot 2.0, Hibernate

**Web:** JavaScript, TypeScript, AngularJS, Angular 2+ (6-10), RxJS, NgRx, NGXS, Redux State Pattern, jQuery, AJAX, HTML, CSS, Bootstrap, PrimeNG

**Web Servers:** Apache Tomcat, Eclipse Jetty

**Databases**: SQL, MySQL, PostgreSQL, Oracle, H2

**Build Tools**: Gradle, Maven, NPM

**Test Tools:** JUnit 5, Mockito, Selenium WebDriver, Cucumber, Postman, Fiddler

**Practices**: Agile/Scrum, Waterfall, TDD, BDD, Pair Programming, Clean Coding, Continuous Delivery

**Architectures**: Single Page Application, REST (Restful-Web Services), Client/Server

**Version Control**: Git, GitHub, Bitbucket, GitLab

**Agile Tools**: JIRA, Redmine, Trello, Slack, Jenkins, Teamcity, Mural, Microsoft Teams

**IDE**: IntelliJ, WebStorm, Eclipse, Android Studio, Visual Studio Code

**Operating Systems**: UNIX/Linux, Windows

### Professional Experience

**PMG Global Corporation**, Herndon, Virginia

***Software Engineer***  August 2020 – Present

* Software Engineer consultant at Fidelity Investments, Durham, North Carolina.
* Migrating legacy jQuery client app for sales demo into modern Angular app following principles of reactive programming (RxJS), caching, REST APIs, lazy loading, and modular application structure.
* Adding enhancements and refinements to Demo Configuration Wizard, an admin application that helps to create, configure, and launch demo experiences for sales.
* Working with Java 8 and Spring MVC to add new configurations and endpoints to configuration wizard app.
* Containerizing the wizard app using Docker and deploying to AWS cloud service.
* Creating and modifying build scripts to modify Jenkins pipelines for daily automated build activities.
* Providing guidance and mentoring to the other developers within the wider Digital Platforms Technology team in Fidelity Investments.
* Writing and executing automated behavior-driven tests for Angular 10 application using Jasmine and Karma.
* Writing end-to-end tests using Unified Selenium Framework, a high-level abstraction over Selenium WebDriver proprietary to Fidelity.
* Ensuring the daily builds, performing code reviews, monitoring SonarQube code quality scan results, detecting bugs and finding security vulnerabilities through Veracode scans.
* Working with cross teams to mitigate dependencies and resolve technical debt items.
* Involving with research and development activities to achieve technology upgrade and introduce new features in the existing system.
* Technology: Java 8, JavaScript/TypeScript, Angular, Node, NPM, HTML/CSS, RxJS, REST, Apache Tomcat, Spring MVC/Spring Boot, SLF4j, Maven, Jenkins, Jasmine, Karma, Junit, Selenium, Docker, SonarQube, Veracode, AWS

**Venio Systems LLC,** Fairfax, Virginia

***Software Engineer*** April 2018 – August 2020

* Supported VenioOne Unified Solution (Electronic Discovery Software Solution) on both frontend and backend.
* Ported legacy AngularJS website into Angular 8 application utilizing NgRx and NGXS, reactive state management libraries inspired by Redux pattern.
* Designed highly cohesive system by defining clear bounded contexts and domain driven design pattern.
* Designed and developed RESTful services for serving consumable APIs and resources.
* Integrated TDD using NUnit for C# legacy projects and Junit 5 and Mockito for unit testing code written in Java.
* Built On-Demand web modules for data import, review, analysis, and production employing modern JavaScript grid tools and libraries.
* Utilized WebSocket and SqlDependency for creating real-time Pub/Sub Client and Server communication channels.
* Designed and built a forensic utility tool to capture and process targeted information out from Cellebrite backup data and export them in the format needed to meet eDiscovery and compliance requirements.
* Worked with sophisticated libraries such as vis.js for building dynamic and customizable social network diagram, Golden Layout for drag-and-drop window management layout, and ag-grid for advanced data grid system.
* Adopted and worked with Redux style (NgRx, NGXS) state management in the single page application.
* Built runtime loadable applets and plugins to add new features and to enhance existing features.
* Integrated Linters, Prettier and Husky Git Hooks for consistent and clean coding standard throughout the application.
* Participated in the evaluation, integration, and testing of eDiscovery and Computer Forensic tools and technologies.
* Responsible for analyzing and approving refinements and changes in the code to ensure the most efficient methods are employed.
* Lead a 6-member offshore development team by coordinating and assigning tasks to them and assisting in development.
* Assisted with system-wide feature implementation, testing, installation, and knowledge transfer.
* Designed and developed PoC (Proof of Concept) and present demos to client to ensure requirements are met and implemented them.
* Acted as a point of contact and support for clients utilizing eDiscovery tools.
* Technology: Java 8, C#, NUnit, Junit 5, Mockito, Postman, Angular 6 – Angular 10, AngularJS, NgRx, NGXS, RxJS, ASP.NET, C#, HTML, CSS, SCSS, TypeScript, JavaScript, Redmine, Teamcity, GitLab, Event-Driven Messaging, WebSocket, Maven, MSBuild

**ExtremeTix Inc**., Houston, TX

***Information Technology Intern***  May 2017 - August 2017

* Developed fully baked ‘Test Automation Framework' to provide an execution environment for the automation test scripts that allowed automated regression testing of ‘WebTix', a frontend/web interface for the benefit of clients.
* Designed and developed the application using Spring Boot, Core Spring, Spring Initializer.
* Extensively used Selenium WebDriver and Spring Boot combined to write automation scripts for dynamic pages of ‘WebTix' written on AngularJS Framework. Modularized web components as Java objects following Page Object Model that created Object repository for all locators which can be easily automated.
* Leveraged the benefits of both data-driven and behavior-driven approaches and built the framework that is easily maintainable and reusable, as well as integrated automated tests with Cucumber (behavior-driven testing framework) to allow Quality Assurance team write high-level use cases in plain text.
* Controlled Jenkins to build automated tests project and used Selenium Grid to run parallel tests across multiple browsers and platforms, as well as worked on automated reports generation and distribution.
* Worked in Spring AOP Interceptors in logging and auditing.
* Implemented TDD Test driven development using JUnit, automated deployment in Dev, Staging, and Production environment using Maven in an Agile environment.
* Technology: Java 8, Spring Boot, Selenium WebDriver, Cucumber, JUnit, AngularJS, CSS, HTML, TDD, BDD, Jenkins, Git

**Real Time Solutions Pvt. Ltd**., Patan, CDR, Nepal

***Software Developer***  May 2014 – June 2016

* Worked on various aspects of application development, including requirement analysis, design, and testing.
* Coded and debugged multi-tiered Java-based applications to provide enterprise and embedded solutions using Java and Spring framework APIs like MVC, AOP, DAO, JDBC, Transaction, Validation, Annotation, JSON, XML, Maven and JUnit Test.
* Created and implemented applications using conventional design practices (SOA - Service Oriented Architecture).
* Developed database access layers using Spring Data JPA and Hibernate, REST web services for external application integration, and a Java-based SDK and driver software for making the card reader, PUA-310V-0/M2U2/Y4 to work on Linux.
* Researched on smart card technology (NFC, Mifare, and DESFire) for projects like VMS (Visitor Management System) and SCBTIMS (Smart Card Based Trekkers' Information Management System).
* Worked in implementation of UNIX shell scripts for file transfer and processing.
* Worked in ORM mapping using Hibernate 3 in accessing PostgreSQL database.
* Wrote core software logic for QMS (Queue Management System) in Java, developing plugin architecture and implementing RS485, TCP & HTTP channels as plugins for interfacing QMS hardware devices.
* Worked in Enterprise design patterns including Abstract factory pattern, Singleton, DAO (Data access object), Data Transfer object (DTO), Service locator, etc.
* Handled projects like VMS (Visitors Management System), QMS (Queue Management System) and SCBTIMS (Smart Card Based Trekkers' Information Management System).
* Worked with JS, JSP, HTML, CSS, Bootstrap, AngularJS and ReactJS to design and develop interactive user interfaces and HMI (Human Machine Interface) for real-time data monitoring and interactions.
* Built multiple mobile applications (Android and iOS) for real-time monitoring of hydrologic parameters and alert dissemination during floods and glacial lake outburst risks.
* Efficiently handled multi-platform mobile application development technologies like PhoneGap and Titanium.
* Fixed bugs and implemented features using Java and J2EE on large scale projects by reviewing codes and testing cases, analyzing change requests and enhancements, investing alternate configurations and implementing better solutions.
* Leveraged an array of tools to optimize efficiency, including OpenERP for project management, Git for source control and versioning, sophisticated IDEs such as IntelliJ and many others.
* Managed client interactions which involved handling technical aspects of a sales pitch.
* Technology: Java 8, Spring Framework, Spring Boot, Hibernate 3, IntelliJ, JSP, CSS, Bootstrap, HTML, JSON, XML, ReactJS, AngularJS, Log4j, MySQL, PostgreSQL, SQLite, Android Development, Ionic, Apache Cordova, Git, Jenkins, JUnit, REST, SOA

**Bajra Technologies Pvt. Ltd**., Kathmandu, Nepal

***Java Developer***  March 2014 – May 2014

* Worked in backend development and optimization of Nepal Tourism Board website.
* Leveraged JavaScript, jQuery, AJAX, HTML 5 and pure CSS to create dynamic website for NTB website.
* Developed the MRP (Machine Readable Passport) Reading Module both backend and frontend by utilizing Java 7 and Java Swing.
* Used JUnit 3 test driven development (TDD) and used Maven for running automated build of the application.
* Technology: Java 7, Java Swing, MySQL, JUnit 3, Maven, UNIX, JavaScript, jQuery, CSS, HTML, Eclipse

**Real Time Solutions Pvt. Ltd**., Patan, CDR, Nepal

***Jr. Software Developer***  January 2013 – October 2013

* Designed and developed applications using Scrum, an iterative and incremental Agile Software Development methodology, as well as carried out back-end development using PHP (CodeIgniter MVC Framework).
* Developed CMS like system majorly with PHP and MYSQL and created data entry forms in HTML set in with PHP.
* Built a file-crawler app in CodeIgniter for sorting and removing duplicates and redundant files.
* Worked in RDBMS implementation using SQL, on MySQL database.
* Technology: PHP, CodeIgniter MVC Framework, UNIX/Linux, SQL, MySQL, Scripting, Embedded Programming, C, C++

### education

**Lamar University**, Beaumont, TX

***Master of Science in Computer Science*** December 2017

GPA: 4.0/4.0

**Tribhuvan University**, Kathmandu, Nepal

***Bachelor of Engineering in Electronics and Communication Engineering*** December 2013

GPA: 3.94/4.0