

# Ravin Kaur

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## WORK EXPERIENCE

### Wiley Edge| Working Onsite at Morgan Stanley, Canada

#### Java/Scala Developer – Backend, June 2022 to July 2023

- Developed a Python script that sends millions of events to Morgan Stanley's in-house Scala application while controlling the flow of the events by monitoring the depth of IBM MQ and the lag in the Kafka topic, resulting in faster and improved data persistence by 35%
- Developed and maintained new functionalities in Morgan Stanley's Java (Spring) and Scala applications by integrating financial product-related events from various Morgan Stanley systems. Mapped and persisted the financial products into the common DAL database (MongoDB) improving data access and retrieval efficiency, resulting in a 20% reduction in data retrieval time
- Involved in every stage of the development process from gathering preliminary information, development, testing, and deployment. Collaborated with cross-functional teams to ensure seamless integration and delivery of data solutions, enhancing the accuracy and accessibility of security reference data for the organization's stakeholders
- Designed Core java classes and interfaces using Collection, multi-threading and design patterns
- Responsible for writing SQL queries and Stored procedures for backend communication using JDBC and Hibernate
- Automated the process of verification and validation of different corporate actions by developing Autosys jobs
- Actively involved in deployment and release management.
- Good knowledge and hands-on experience using Mocking as a part of Junit.
- Configured log4j for logging purposes
- Created CI/CD pipeline using Jenkins and Git for version control
- Proficient in utilizing Jira, a powerful project management tool, to streamline workflows, track progress, and enhance collaboration
- **Skills:** Apache Kafka, Java 8, Scala, Python, Linux Shell Scripting, Spring, JSON, IBM MQs, OOPs, Git, JUnit

### Wipro Technologies Limited

#### Software Developer – Backend July 2019 – March 2021

- **Online Assessment system**
  - Participated in the analysis, design, and development of different modules of the web application using Spring Boot, Spring Web MVC, and Spring Data JPA frameworks, leveraging h2 Database and REST API.
  - Implemented user account registration, login functionality, and assessment delivery features within the application.
  - Created a dashboard for admins to manage class performance and access key findings
  - Created technical specification documents including use Cases, Class, Sequence, and Activity Diagrams
  - Extensively Developed JUnit tests and performed feature/integration testing and used POSTMAN for REST API testing.
  - Involved in peer code review process to improve overall code quality.
  - Actively involved in deployment and release management.
  - Deployed on AWS.
  - Created CI/CD pipeline using Jenkins and Git for version control.
  - **Skills:** Spring boot, Java 8, Rest API, Python, Linux Shell Scripting, Spring framework, OOPs, Junit, POSTMAN
- **Application Migration Plugin**
  - Designed and developed an XML-based Eclipse IDE plugin for application code migration from Java 6 to Java 8 and 11, focusing on syntax migration ensuring that there are no security vulnerabilities in the client's application code base.
  - Utilized PMD analyzer and XPath to create custom XML rulesets, enabling identification of different components within the application code.
  - Conducted thorough testing and debugging to ensure the reliability and effectiveness of the plugin.
  - Documented the plugin's functionalities, configurations, and usage guidelines for ease of adoption and maintenance
  - **Skills:** XML, Java, PMD analyzer, and XPath

## PROJECT EXPERIENCE

- **Hand Gesture Recognition System:**
  - Developed an accurate image classifier using Convolutional Neural Networks (CNN) for hand gesture recognition in a live video feed, achieving 99.84% accuracy
  - **Skills:** Keras, Scikit, OpenCV2, Python, Machine Learning
- **Personal Portfolio website:**
  - Architected and deployed a fully responsive and multi-page layout personal portfolio website.
  - Styled with React-Bootstrap and CSS with easy-to-customize colors
  - **Skills:** React.js, Node.js, Express.js, CSS3, VsCode, Vercel, Git
- **Employee Management System:**
  - Steered the creation process for a Single Page Application (SPA) with Angular4 for efficient management of employee records, enabling organizations to streamline their HR processes and enhance data organization and retrieval
  - Implemented search box filtering and in-app navigation features, facilitating easy access to employee information and improving overall productivity and efficiency in managing employee data
  - **Skills:** Typescript, Angular 4, SQL

## **SKILLS**

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- Technical experience: Spring, JSON, Python, OOPs, Java, Scala, Linux Shell Commands, SQL, XML, Java, PMD analyzer, XPath, Spring Boot, Spring Web MVC, Spring Data JPA, h2 Database, RESTful Web Services, Keras, Scikit, OpenCV2, Python, Flask, AWS

## **PUBLICATIONS**

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- Co-authored Chapter 5 Online Trust Evaluation, New Age Analytics - Transforming the Internet through Machine Learning, IoT, and Trust Modelling, 1st Edition, Apple Academic Press.

## **EDUCATION**

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**Netaji Subhas Institute of Technology, University of Delhi**

**Bachelor of Engineering**, Specialization in Information Technology and Computer Science, 2015 – 2019

- Top 30 of the graduating class; 100% scholarship awardee for 3 consecutive years (2016-2019)
- American Express (Amex) Makeathon 2018 (1st Position): Prototype for digital footprint expansion
  - Implemented a Shopbot that displays all the e-commerce website options available for a given product that accept Amex cards and Geofencing, for sending notifications about offers regarding American Express Cards to users entering a particular market area