

# RAVIN KAUR

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## WORK EXPERIENCE

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

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

- Developed a Python script to send millions of financial events to a Scala application for post processing while monitoring the depth of IBM MQ and lag in Kafka topic which ensured faster and improved data persistence by 35%
- Developed and designed Java and Scala applications using multi-threading, parallel processing, JDBC and Hibernate to consume product related financial events from various company database systems and store in a common MongoDB resulting in a reduction of data retrieval time by 20%
- Enhanced the operational excellence by developing Autosys jobs for integration testing of existing processes in production reducing the manual testing time 50%
- Developed a python script that parsed the error logs to find out the events that did not persist in the MongoDB and resent the events based on the error type. This led the team to categorise the errors and solve issues in the source code of the Scala Application

### Wipro Technologies Limited

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

- **Online Assessment system**
  - Collaborated 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
  - Designed and implemented user account registration, login functionality, and assessment delivery features using Spring Boot and Spring Security
  - Created a dashboard for admins to manage class performance and access key findings using SQL/Power BI
  - Wrote JUnit tests and performed feature/integration testing. Used POSTMAN for REST API endpoint testing
  - Managed deployment and release processes, ensuring smooth application launches and updates using AWS
- **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
  - Developed custom XML rulesets, enabling identification of language specific components within the application code
  - Conducted thorough testing and debugging to ensure the reliability and effectiveness of the plugin
  - Documented the functionalities, configurations, and usage guidelines for ease of adoption and maintenance

## PROJECT EXPERIENCE

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- **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
- **Personal Portfolio website:**
  - Designed and developed a fully responsive and multi-page layout personal portfolio website
  - Styled with React-Bootstrap and CSS with easy-to-customise colours
- **Employee Management System:**
  - Steered the creation process for a Single Page Application (SPA) with Angular4 for efficient management of employee records, enabling organisations to streamline their HR processes and enhance data organisation 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
- **American Express (Amex) Makeathon 2018 (Winner):** 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

## TECHNICAL SKILLS

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**Languages:** Java/J2EE, C++, Python, XML

**Java/J2EE Technologies:** Core Java, JSP, Servlets, Spring, JMS, Web Services (REST, SOAP), Microservices, Spring Cloud, Spring Boot

**Frameworks:** Hibernate, Spring

**Web Technologies:** Angular, React, JSP, HTML5, CSS3, JavaScript, AJAX, jQuery, React.js, Node.js, Express.js, CSS3

**Databases:** MySQL, SQL

**Cloud:** Kubernetes, Docker

**Version Control:** GIT and Bitbucket

**Testing Tools:** JUnit, Postman

**Build Tools:** Ant, Maven, Jenkins, Gradle

**IDE and Tools:** Eclipse, IntelliJ, Visual Studio Code, SoapUI, Notepad++, Jupyter

**Python Libraries:** Keras, Scikit, OpenCV2, Matplotlib, Pandas, Numpy

**Operating Systems:** macOS, Windows, Linux/Unix

**Messaging Systems:** Apache Kafka, IBM Message Queue

## PROFESSIONAL CERTIFICATIONS

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- **Microsoft Azure Fundamentals (AZ-900)**  
2023

## 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**, Information Technology and Computer Science, 2015 – 2019

**CGPA:** 7.8