ASHBIR SINGH DHIMAN

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Postgraduate Student and Forward-thinking Software Engineer with a strong background in cloud computing and full-stack development. AWS Certified Cloud Practitioner with hands-on experience in Java, Spring Boot, and CI/CD pipelines. Skilled in developing scalable software solutions and collaborating in Agile environments.

TECHNICAL SKILLS

- **Languages**: Java, Angular, Data Structures, Node.js
- **Database**: Oracle, MySQL
- **Framework**: Spring, Spring Boot (Spring MVC, Spring Data JPA, Spring Security), Hibernate
- **DevOps**: Docker, Jenkins, SonarQube
- **IDEs/Toolchains**: VSCode, IntelliJ
- **Version Control and Development environments**: Vagrant, GitHub
- **Others**: Postman, Jira, Confluence, Agile Methodology

PROFESSIONAL EXPERIENCE

Computer Application Programmer   APR 2024 - JULY 2024
Rakhra Global Private I.T.I, India

- **Software Development**: Built and maintained academic/administrative software in **HTML/CSS**, ensuring compliance with standards, and integrated new systems to enhance performance.
- **Data Optimization**: Managed secure databases and testing processes, achieving **35%** improvement in data accuracy.
- **Documentation & Usability**: Authored user guides and maintained **documentation** to streamline system maintenance and user adoption and reducing processing errors by 12%

Software Developer (*Promoted from Associate Software Engineer*)   AUG 2020- JUNE 2023
Amdocs (Brite-bill), India

- **Performance & Modernization**: Upgraded workflows using Java/Spring, ensuring data quality by implementing validation strategies and boosting efficiency by **30%**; revamped legacy code to cut costs by **12%** for **10M+ users**.
- **Security & Scalability**: Secured apps via **Spring** Security and streamlined data processing with **Oracle** DB integration.
- **Cross-Functional Delivery**: Built real-time bill share module (Angular/REST APIs) using 3rd party REST API and slashed troubleshooting time by **15%** via TDD/JUnit.
- **Client Impact**: Resolved critical issues for global clients through **Agile** collaboration and root-cause analysis.

PROJECTS

ATS Scan and Recommendation Tool   JAN 2025 – APR 2025

- **Continuous Integration & Deployment**: Automated builds using **Jenkins** Webhooks, improved **CI/CD** efficiency, and developed pipelines with **SonarQube** for code quality analysis and automated testing.
- **API Management**: Implemented API versioning to ensure backward compatibility during feature updates, maintaining seamless user experience.
- **Containerized Deployment**: Deployed applications on **Linux** servers using scripting with Docker, creating optimized **DockerFiles** for efficient containerization.
- **Database Integration**: Installed and configured **MongoDB** on Loyalist College servers, integrating it with backend systems to enhance data processing and storage capabilities

Cafe Management Using MVC Architecture   JULY 2024 - OCT 2024

- **Architectural Design**: Designed and developed the application using object-oriented principles and **MVC** architecture with **Java**, **Spring Boot**, and **Angular**, ensuring seamless data flow and effective integration
- **REST API Development**: Designed **APIs** to manage orders, menus, and inventory efficiently, ensuring smooth HTTP request handling.
- **Database Management**: Leveraged **JPA** for seamless database operations and integrated **MySQL** for reliable data storage and retrieval.

HitechSteels, Ontario, Canada   **NOV 2023 – MAR 2024**

- Created a visually appealing and user-friendly design using the **Angular** framework, accessible.
- **UI/UX Design**: Designed a visually appealing, user-friendly interface using **Angular** at [HitechSteels](), ensuring responsiveness across devices and consistent layout, color scheme, and typography.
- **Testing & Deployment**: Thoroughly tested the website on **x10hosting** before presenting it to the customer, and later hosted it on Namecheap with added **SSL** security.
- **Client Interaction**: Integrated a **web form** for client data submission, enabling the owner to access form details directly via email.

Smart Waste Segregation Dustbin System using ML and AWS   **JAN 2019 - DEC 2019**

- **Smart Waste Management**: Deployed ultrasonic sensors to monitor bin waste levels and used **AWS cloud services** to upload waste images for analysis, automating status updates to authorities.
- **Waste Classification**: Leveraged **Convolutional Neural Networks** to segregate waste into biodegradable and non-biodegradable categories, enhancing efficiency and sustainability.
- **Cross-Technology Adaptability:** Worked with AWS, MySQL, and REST APIs to manage and process large datasets, showcasing skills that can be transferred to Spark or Scala environments**.**

EDUCATION

Ontario College Post-Graduate Certificate in Computer Software and Database Development   **SEPT 2023 – APR 2025**
Loyalist College, Toronto, ON

Bachelor of Engineering in Computer Engineering   **JULY 2017 - JUNE 2020**
Thapar Institute of Engineering and Technology, India

Diploma in Computer Science and Engineering   **JULY 2014 - MAY 2017**
Thapar Polytechnic College, India

CERTIFICATION & PUBLICATION

- **AWS** Certified Cloud Practitioner (CLF-02 2025)
- **Elsevier Journal Publication**: Ashbir Singh Dhiman, AK Verma, Arshdeep Kaur, "*Comparison of AODV and DSR in MANETs" (2020), published in Elsevier Journal, January 2020*"