

# Harshvardhan Sanjay Dubey

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## SUMMARY

Experienced Software Engineer with over 3 years of professional proficiency in Angular, Java, Oracle SQL, and CI/CD, and a proven track record of delivering client-centric solutions.

## EDUCATION

### Carnegie Mellon University

Pittsburgh, PA

Master of Information Systems Management | GPA: 3.81/4

December 2023

**Honors:** Dean's list Spring 23, Fall 23

**Coursework:** Data Structures, Java, Data Focused Python, Distributed Systems, Database Management, Agile Methodologies, Consulting, Product Management, IT Project Management, Managing Analytic Projects

### University of Mumbai

Mumbai, IN

Bachelor of Engineering, Information Technology | GPA: 8.47/10

May 2019

**Honors:** Outstanding Performance Award 2019, Ranked first in a class of 80

**Coursework:** Data Mining & Business Intelligence, Object Oriented Programming Methodology, Advanced Database Management, Distributed Systems, Software Project Management, Applied Mathematics

## SKILLS & CERTIFICATIONS

**Technical:** Java, Spring Boot, JavaScript, C, Python, Blockchain, Android, MongoDB, MVC, Hibernate, REST, SQL, PL/SQL, Angular, UNIX, Chai.js, HTML, CSS, Bootstrap, Cypress, Postman, Jira, Git, CI/CD, Kubernetes

**Certifications:** Microsoft Technology Associate: Introduction to Programming Using Java, Microsoft Technology Associate: Security Fundamentals, Scrum Inc. Registered Scrum Master

## WORK HISTORY

### The Jackson Laboratory

Remote, Pittsburgh, PA

Computational Sciences Intern

May 2023 - August 2023

- Optimized deployment with CI/CD pipelines, achieving a 30% efficiency boost in development and testing
- Developed and executed API test suites in Postman, including load testing, resulting in a 95% success rate
- Collaborated on Terraform-based cloud standards, leveraging a GCP backend to deploy an IaC
- Designed Cypress frontend tests to ensure optimal user experience and achieve 100% functional accuracy

### Larsen & Toubro Infotech

Mumbai, IN

Software Engineer

August 2019 - July 2022

- Engineered full-stack applications in Advanced Java, achieving a 3-second response time reduction on average
- Standardized a REST-based data catalog consisting of 10M+ records in Oracle from Collibra Metadata
- Planned releases to higher environments using CI/CD tools resulting in a 20% reduction in release cycle time
- Featured in L&T Infotech (July 2021) – Genesis Q1 Newsletter for being awarded the 'Pat on the Back'

## ACADEMIC PROJECTS

### Blockchain Implementation: Distributed Systems

- Assembled a blockchain implementation resulting in a robust and cohesive system with 100% accuracy
- Devised functions for seamless block addition, hash rate calculation, block retrieval, chain validation, and swift repair when needed, resulting in a 15% efficiency boost
- Orchestrated effective proof-of-work computation, ensuring compliance with specified difficulty levels

### Chuck Norris API: Creative Android App with Cloud Integration

- Developed a user-friendly native Android app with diverse views to display jokes fetched from a 3rd party API
- Engineered a creative distributed application with a mobile component and cloud-based RESTful web service, enhancing data retrieval efficiency by 50% by implementing MongoDB Atlas

### SpyD: An automated security tool

- Led a team of 4 developers in creating a device for up to 5 types of penetration tests in a network
- Reduced the possibility of successful attacks by 90% by notifying network owners about the vulnerabilities
- Published a research paper titled '[SpyD: An Automated Security Tool](#)', ISSN:2349-5162