

# Harsimran Singh Dhillon

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## EDUCATION

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**

*Master of Science in Computer Science* | **Cumulative GPA:** 3.81/4.00

*Expected Dec 2024*

**Relevant Coursework:** Design Patterns, Operating Systems, Database Systems, Design & Analysis of Algorithms, Distributed Systems, Systems Programming, Principles of Programming Languages

**Savitribai Phule Pune University**

*Bachelor of Engineering in Computer Engineering* | **Cumulative GPA:** 3.64/4.00

*August 2017 - May 2021*

**Relevant Coursework:** Data Structures & Algorithms, Object Oriented Programming, Advanced Data Structures, Database Management Systems, Software Engineering & Project Management, Software Testing & QA, High Performance Computing

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, C++, C#, .NET Framework, TypeScript, Angular.js, HTML5, CSS3

**Frontend/Backend:** ReactJS, React Native, Flutter, Figma, Django, Flask, Spring Boot, Selenium, REST API, Groovy

**Database / Open-source:** SQL, MongoDB, MySQL, NoSQL, PostgreSQL, Splunk, Linux, Cloudant, CRM

**Cloud Native Technologies:** Docker, Kubernetes, Kafka, Redis, Openshift, Amazon Web Services(AWS), Azure, IBM Cloud, GCP

**Project Management and CI/CD:** GitHub, Jenkins, Maven, JUnit, Jira, Scrum, Git, GitLab, Terraform

**Certifications:** Azure Fundamentals, Designing RESTful APIs, Build and Deploy Containerized Apps, Continuous Integration Tool

## PROFESSIONAL EXPERIENCE

**Geeks Solutions, DevOps and Networking Intern** | Nashik, India

*June 2024 - July 2024*

- Improved **cross-cloud** transaction response times by 43% by configuring and optimizing a **VPN** between **AWS** and **Azure** to meet client requirements
- Achieved 96% client satisfaction by identifying and resolving performance issues of the client **Kubernetes** servers, designing and integrating secure, reliable system solutions for financial transactions
- Reduced network configuration setup time by 30% through process automation and detailed documentation on **Confluence**

**Bunchful, Web Developer Intern** | New York, USA

*May 2024 - June 2024*

- Led a team of 4 interns to improve page load times by 35% by migrating legacy web applications to **ReactJS** and developing reusable **UI components**, streamlining development processes across multiple projects
- Boosted overall **team productivity** by 72% through developing automation tools and enhancing communication workflows, creating documentation over **Confluence**, using **Agile Development** practices

**TIAA GBS, Analyst - Software Developer** | Pune, India

*July 2021 - July 2023*

- Reduced manual efforts by 82% by delivering **RESTful API** solutions using **Java** and **Spring Boot** to automate business processes, increasing overall operational efficiency
- Achieved 93%+ system uptime by implementing **CI/CD** pipelines using **Docker** and **Jenkins**, enabling frequent, high-quality software releases critical to the business
- Reduced project timelines by 43% by leading a team of 2 for the migration of a **monolithic architecture** to **microservices** using **Apache Camel**, improving system resilience for around 500 users in a high-stakes financial environment
- Ensured system reliability and minimized downtime by resolving over 20 critical production issues across financial platforms, using **Splunk** for log analysis and **JIRA Kanban boards** for efficient tracking and prioritization

## PROJECT EXPERIENCE

**Animated Movies Data Analysis** | *Java, MongoDB Spring Boot, React JS*

*February 2024 - April 2024*

- Reduced backend processing times by 60% by designing a scalable solution with **MongoDB**, **Java**, and **Spring Boot**, optimizing data processing for millions of movie records
- Enhanced system architecture and efficiency by 30% by designing real-time **data visualizations** in **ReactJS** with the **Recharts** library for high-volume datasets, providing actionable insights that informed strategic decisions

**The Spice Tradition** | *JavaScript, MySQL, Angular.js, Canva, Figma*

*December 2023 - February 2024*

- Increased sales by 82% within the first month by designing and developing a mobile-friendly, scalable e-commerce platform, significantly enhancing the user experience
- Generated an additional \$2000 in monthly revenue and increased customer retention by 100% through close **collaboration** with design and marketing teams

## RESEARCH EXPERIENCE

- Dhillon, H. S., & Garud, H. (2022). Machine Learning-Based Depression Classification Model. IJCRT Journal, 10(6), g339-g343. Retrieved from [www.ijcrt.org](http://www.ijcrt.org)

## VOLUNTEER EXPERIENCE

- Directed a promotional campaign for AI Fest, doubling last year's registrations with over 200 sign-ups, and created **Power BI** reports to provide insights for optimizing future events