

# Harsimran Singh Dhillon

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## EDUCATION

**Binghamton University, State University of New York, Binghamton, USA**

*Master of Science in Computer Science*

*Expected May 2025*

**Cumulative GPA:** 3.67/4.00

**Relevant Coursework:** *Design and Analysis of Algorithms, Programming Languages, Operating Systems, Database Systems*

**Savitribai Phule Pune University, Pune, India**

*Bachelor of Engineering in Computer Engineering*

*June 2021*

**Cumulative GPA:** 3.64/4.00

**Relevant Coursework:** *Object Oriented Programming(OOPs), Design Patterns, Data Structures and Algorithms, Cloud Computing*

## TECHNICAL SKILLS

**Backend & Web Development:** *Java, Python, C, C#, C++, React.js, AngularJS, Vue.js, SQL, NoSQL, PostgreSQL*

**Project Management:** *Git(Version Control), Github, Gitlab, Docker, Kubernetes, Jenkins, Jira, Scrum, Microservices*

**Frameworks & Tools:** *Apache Camel, Spring Boot, Gradle, .NET Framework, Amazon Web Services (AWS), Azure, MVC, Splunk, Node.js, Postman, Power BI, Tableau, jQuery, Kafka, Kotlin, JUnit, Linux, SaaS, Containerization, Nginx*

**Certifications:** *Designing RESTful APIs, Build and Deploy Containerized Apps, Continuous Integration: Tools*

## PROFESSIONAL EXPERIENCE

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

*Jul 2021-Jul 2023*

- Implemented Agile methodologies to streamline the 4-month API conversion project from Mule framework to Apache Camel, resulting in a 27% reduction in the overall project timeline
- Reduced response times during server outages by 80% by analyzing and resolving complex issues, supporting the testing team, and optimizing CI/CD of a REST API
- Rectified application server crash issues in the production environment by preserving 53% of memory used, managed production issues and enhancements, and provided DevOps and SDLC support for 4 applications
- Spearheaded development of API solution, resulting in an 82% decrease in manual effort and bolstering efficiency

**Cognifront, Software Engineer Intern | India**

*Jun 2020-Jul 2020*

- Implemented Attendance Marking System, reducing manual labor by 87% and paper waste by 64%
- Debugged and triaged application logs with Splunk, identifying and documenting solutions for each failure call
- Conducted advanced data analysis with MySQL and data visualization tools, resulting in a 47% improvement in targeted marketing

## PROJECT EXPERIENCE

**Animated Movies Data Analysis | Project Leader | Binghamton, NY | [\[Link\]](#)**

*Feb 2024-Apr 2024*

- Managed the development of a comprehensive Movies Data Analysis Project, utilizing React.js, HTML/CSS for frontend, MongoDB for the NoSQL database, and Spring Boot for the backend, delivering data-driven insights
- Designed and executed 4 advanced query pipelines in MongoDB Compass to extract significant insights from critical data sets
- Implemented performance optimizations resulting in a 30% reduction in query execution time, enhancing the efficiency

**The Spice Tradition | Full Stack Developer | Binghamton, NY | [\[Link\]](#)**

*Dec 2023-Feb 2024*

- Crafted a user-friendly e-commerce website for a startup, utilizing React, JavaScript, HTML5, CSS, and MongoDB, resulting in a 40% increase in online sales within the first month of launch
- Collaborated with cross-functional teams to enhance user experience, resulting in a 100% increase in customer retention rate and generating an additional \$2000 in sales revenue
- Redesigned brand logo using Canva to better align with strategic branding objectives, resulting in a 33% increase in brand recognition and a 25% increase in customer engagement metrics

**Foody - Online Food Ordering Website | Team Member | India | [\[Link\]](#)**

*Feb 2021-Apr 2021*

- Created online meal ordering website using web technologies like Angular, JavaScript, HTML, CSS, and MySQL database
- Engineered innovative backend data mapping system using JavaScript and Angular, optimizing data retrieval processes and increasing system performance by 42% while reducing loading times by 59%
- Revamped website performance and decreased latency by 36% through data caching and search engine optimization strategies

## LEADERSHIP EXPERIENCE

- Facilitated diverse cultural activities as a member of the Graduate Student Organization's Multicultural Event Planning Committee | USA
- Directed Clash of Codes events and monthly technical quizzes as vital parts of the Developer Community of Practices | India

## 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)[\[Link\]](#)