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: 3.81/4.00

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 *Jun 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++, React.js, Angular, 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, JUnit, Linux, Containerization, Power BI, Tableau, Spring, EC2, Maven, Flask*

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

PROFESSIONAL EXPERIENCE

Analyst - Software Developer, *TIAA GBS | 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 **43% 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 the 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

Software Engineer Intern, *Cognifront | 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, USA* | [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 **73% reduction in query execution time**, enhancing the efficiency

The Spice Tradition | *Full Stack Developer | Binghamton, USA* | [Link] *Dec 2023-Feb 2024*

- Crafted a user-friendly e-commerce website for a startup, utilizing React, JavaScript, HTML5, CSS, and MongoDB, resulting in an **82% 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 **67% increase in brand recognition** and a **57% increase in customer engagement metrics**

Foody - Online Food Ordering Website | *Team Member | Nashik, 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 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[Link]