

Harsimran Singh Dhillon

Binghamton, NY | +1 (607) 296-8536 | dhillionharsimran192@gmail.com | [LinkedIn.com/in/harsimransinghdhillon](https://www.linkedin.com/in/harsimransinghdhillon) | [GitHub](https://github.com)

EDUCATION

Binghamton University, State University of New York

Master of Science in Computer Science

GPA: 3.8 / 4.0

August 2023 - May 2025

Pune University

Bachelor of Engineering in Computer Engineering

GPA: 3.6 / 4.0

August 2017 - May 2021

PROFESSIONAL EXPERIENCE

Geeks Solutions, DevOps Intern | Nashik, India

June 2024 - July 2024

- Constructed resilient cloud infrastructure using AWS and Azure, enhancing fault tolerance and improving system efficiency, achieving 43% faster transaction response times for financial platforms
- Optimized Kafka messaging pipelines, elevating real-time event throughput by 40% and allowing seamless handling of 10,000+ transactions per hour under peak conditions
- Automated Kubernetes-based deployments, streamlining workflow execution, eradicating manual bottlenecks, and accelerating deployment speed by 40% across microservice architectures

Bunchful Enterprise, Web Developer Intern | New York, USA

May 2024 - June 2024

- Created interactive front-end components with Angular and TypeScript, shrinking page load times by 40% and boosting user engagement and navigation flow
- Migrated a legacy system into a modernized TypeScript + NestJS architecture, reinforcing code robustness while simplifying future integrations
- Established standardized Git workflows, reducing merge conflicts by 45%, streamlining development processes, and accelerating feature rollout cycles

TIAA GBS, Software Engineer | Pune, India

July 2021 - July 2023

- Developed scalable RESTful APIs using Java and Spring Boot, reducing latency for financial transactions by 82% and facilitating seamless third-party integrations
- Spearheaded the microservices migration using Apache Camel, elevating modularity and improving scalability for 500+ concurrent users, leading to a 43% faster time-to-market for new features
- Implemented distributed caching strategies with Redis, refining system performance to handle over 2M+ daily transactions while ensuring 95% service uptime for financial applications
- Designed robust unit and integration tests with JUnit and Mockito, strengthening code reliability with 95% test coverage and lowering defects by 75%
- Deployed CI/CD pipelines with Docker, Jenkins, and AWS, automating release processes, shortening release cycles by 40%, and ensuring continuous integration with 93% uptime for production systems

PROJECT EXPERIENCE

Multiplayer Chat Application with bot integration, Full Stack Developer | Group Project

- Engineered a real-time chat platform using Python, Django, and WebSockets, supporting 5,000+ concurrent users and enabling multi-user communication with AI-powered chatbots
- Incorporated state-based architecture and optimized long polling mechanisms, trimming bot response time by 40%, allowing users to experience smoother communication
- Refined SQLite3 database performance by implementing asynchronous indexing and message storage, boosting query efficiency by 35%, and lowering server load during high-traffic periods
- Crafted an intuitive front-end using HTML, CSS, JavaScript, and Django templates, driving user engagement by 50% as tracked by session analytics

Ride-Sharing Application with Geospatial Driver Matching, Back End Engineer | Group Project

- Developed a high-performance backend using Java, Spring Boot, and PostgreSQL, advancing driver-passenger matching via geospatial computations
- Integrated JWT-based authentication and Spring Security, strengthening data privacy and access control, mitigating unauthorized access risks by 65%

Fraud Detection System for Financial Transactions, Full Stack Engineer | Independent Project

- Designed a fraud detection engine using machine learning algorithms, evaluating real-time transaction anomalies with 95% accuracy, helping financial institutions detect anomalies and mitigate fraud risks
- Constructed an intelligent anomaly detection system utilizing advanced pattern recognition models and TensorFlow, increasing predictive precision by 30%, decreasing false positives, and enhancing fraud prevention measures

TECHNICAL SKILLS

Programming Languages: Java, C#, C, C++, Python, PHP, JavaScript, TypeScript, SQL, NoSQL

Frameworks & Libraries: Spring Boot, Flask, Node.js, ReactJS, Angular, Vue, .NET, SpringMVC, Apache Camel, HTML, CSS

Databases: MySQL, PostgreSQL, MongoDB, Oracle, Redis, DynamoDB, GraphQL

Cloud & DevOps: Docker, Kubernetes, Kafka, AWS (EC2, S3, Lambda, EKS), Microsoft Azure, OpenShift, GCP

Software and Tools: Git, Jenkins, JIRA, Agile, Scrum, Splunk, Visual Studio Code, Spring Tool Suite, IntelliJ, Camunda, SWIFT

Certifications: Microsoft Azure Fundamentals, Advanced Algorithms, Full Stack Development & REST API, Containerization