

# Harsimran Singh Dhillon

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## EDUCATION

### Binghamton University, State University of New York

GPA: **3.8 / 4.0**

*Master of Science in Computer Science*

*Expected May 2025*

**Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Application Development, Computer Security, RDBMS

### Pune University, Maharashtra, India

GPA: **3.6 / 4.0**

*Bachelor of Engineering in Computer Engineering*

*August 2017 - May 2021*

**Relevant Coursework:** DBMS, Computer Networks, Data mining, Software Development Life Cycle

## TECHNICAL SKILLS

**Languages:** C++, C, Java, Python, JavaScript, ReactJS, React Native, Django, Flask, Spring Boot, HTML, CSS, REST APIs

**Databases:** Oracle, SQL, MySQL, PostgreSQL, MongoDB, NoSQL, SQL Workbench

**Cloud & Containerization:** Docker, Kubernetes, Kafka, Openshift, Amazon Web Services, Microsoft Azure

**Software and OS:** Eclipse, Android Studio, Visual Studio Code, Jupyter Notebook, Git Jenkins, Terraform, Splunk, Jira, Scrum

**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 transaction response times by 43% through optimized VPN integration between AWS and Azure
- Automated network configuration setups, reducing deployment time by 61% through constructing reusable infrastructure automation pipelines using tools like Terraform
- Diagnosed and fixed Kubernetes server performance issues, maintaining high levels of client satisfaction by ensuring secure and reliable financial transaction systems

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

*May 2024 - June 2024*

- Optimized front-end load times by 66% by migrating legacy web applications to ReactJS, introducing reusable UI components that supported development across dynamic projects
- Spearheaded teamwork within the Agile framework by leveraging Confluence, conducting code reviews, and improving workflows, resulting in a 72% boost in overall team productivity

### TIAA GBS, Software Developer | Pune, India

*July 2021 - July 2023*

- Designed and developed robust RESTful APIs in Java and Spring Boot, automating business processes that improved operational efficiency by 82%, directly contributing to scalable solutions for a high-demand system
- Led the migration from monolithic to microservice architecture using Apache Camel, reducing project timelines by 43% and enhancing system scalability, performance, and resilience for 500+ daily users
- Maintained service uptime of 93% by implementing CI/CD pipelines using Docker and Jenkins, supporting reliable build, deployment, and release processes crucial to financial platforms
- Collaborated in coding and code reviews, adhering to industry coding standards, testing rigorously, and ensuring the delivery of high-quality, scalable software solutions
- Resolved over 20 critical production issues, minimizing system downtime across complex platforms to support seamless end-to-end system operations

## PROJECT EXPERIENCE

### Real-time Auction Bidding System, Full Stack Developer | Group Project

*October 2024 - November 2024*

- Engineered a real-time auction platform in C using socket programming and client-server architecture, inspired by eBay's auction model, handling concurrent bidding operations from 100+ simultaneous users
- Developed a message queuing system with mutex locks for thread-safe handling, achieving 96% reliability during peak bidding, alongside a socket programming-based broadcasting system for real-time bid updates with 100% data consistency
- Designed a secure user authentication system and comprehensive logging mechanism, tracking 1000+ auction transactions and generating detailed bid histories for audit compliance

### SmartShift Manager, Full Stack Developer | Solo Project

*August 2024 - September 2024*

- Engineered a comprehensive Employee Shift Management System using Spring Boot and Java, implementing microservices architecture to reduce scheduling conflicts by up to 92% and improving workforce efficiency
- Implemented REST APIs for an intelligent filtering system for employee availability preferences, automating shift assignments based on roles and schedules, reducing manual scheduling time by 75%, and enhancing employee satisfaction rates

### Animated Movies Data Analysis, Full Stack Developer | Group Project

*February 2024 - March 2024*

- Reduced backend processing times by 57% by designing a scalable solution with MongoDB, Java, and Spring Boot, optimizing data processing for millions of movie records
- Enhanced data analysis and strategic decision-making by 77% by performing real-time data visualizations in ReactJS with the Recharts library for high-volume datasets for better understandability of data