

# Harsimran Singh Dhillon

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## EDUCATION

### Binghamton University, State University of New York

Master of Science in Computer Science

August 2023 - May 2025

### Pune University

Bachelor of Engineering in Computer Engineering

August 2017 - May 2021

## PROFESSIONAL EXPERIENCE

### Cloud Service Intern

Michigan Health Information Network Shared Services (MiHIN) | MI, USA

January 2025 - Present

- **Saved \$3,000/month** in cloud logging costs by **automating a log management pipeline** using **Python Scripts, AWS Lambda, and AWS S3**, reducing reliance on **CloudWatch** and improving storage efficiency
- **Strengthened cloud security by 55%** by configuring **IAM roles, S3 policies, and network security groups**, aligning with **Amazon security standards** to protect sensitive healthcare data
- **Provisioned and configured AWS Workspaces for 10+ users**, integrating necessary applications to **improve deployment efficiency by 25%** and **reduce setup time by 40%**

### DevOps Intern

Geeks Solutions | MH, India

June 2024 - July 2024

- **Engineered a highly available data ingestion pipeline** using **Python** and **PostgreSQL** in a **multi-cloud environment (AWS & Azure)**, improving **real-time data processing efficiency by 50%**
- **Developed Kubernetes-based microservices deployments**, improving **system scalability** and reducing **operational downtime by 40%**, ensuring **seamless performance** under high-traffic loads
- Designed **real-time monitoring dashboards** using **Prometheus** and **Grafana**, tracking **500+ system metrics** and reducing **incident resolution time by 30%** through identification of performance bottlenecks

### Full Stack Software Engineer

TIAA GBS | MH, India

July 2021 - July 2023

- **Ensured 99.9% system uptime** by designing and maintaining **high-performance microservices** with **Java, Spring Boot, and Hibernate**, processing **millions of daily transactions globally**
- **Decreased API latency by 82%** by implementing **distributed caching (Redis)** and **event-driven architectures (Kafka)**, improving **transaction processing speeds**
- **Reduced maintenance overhead by 65%** by leading the **migration from monolithic to microservices architecture**, reducing **operational costs**, and improving **scalability**
- **Accelerated software release cycles by 40%** by implementing **CI/CD pipelines** using **Docker, Kubernetes, and Jenkins**, reducing **deployment errors** and ensuring **smooth rollouts**

### Software Engineer

Himi Shipping Services Pvt. Ltd. | MH, India

June 2020 - June 2021

- **Built an advanced inventory management system** using **Java, Spring Boot, and MySQL**, reducing stock discrepancies by **75%** and improving **real-time inventory updates**
- **Developed and secured RESTful APIs** to integrate third-party logistics platforms, reducing data synchronization errors by **25%** and enhancing **supply chain transparency**
- **Optimized database performance** with **indexing and query tuning**, cutting **report generation time by 50%** and leveraging **BigQuery** for **real-time analytics**, improving **decision-making efficiency by 40%**

## PROJECT EXPERIENCE

### Scalable E-Commerce Platform for High-Traffic Workloads | Full Stack Developer

- **Enhanced inventory tracking efficiency by 65%** by developing a **scalable full-stack application** with **ReactJS, Python, and PostgreSQL**, enabling **real-time inventory updates**
- **Optimized API response times by 35%** by implementing **refined RESTful API interactions**, improving user experience
- **Boosted UI engagement by 30%** by designing an **intuitive ReactJS + Material-UI interface**, decreasing bounce rates by **25%**

### Scalable Ride-Sharing Platform | Back-End Engineer

- **Lowered passenger wait times by 30%** by developing a **streamlined ride-matching algorithm** using **Java, Spring Boot, PostgreSQL, API Gateway, and AWS Lambda**, ensuring **efficient driver-passenger assignments**
- **Secured user data and ensured compliance** by implementing **JWT and OAuth-based authentication**, protecting sensitive user and transaction data

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, SQL, JavaScript, TypeScript, C++
- **Backend Development:** Spring Boot, RESTful APIs, Microservices Architecture
- **Frontend Development:** Angular, React.js, JavaScript, HTML5, CSS, Bootstrap
- **Database Management:** PostgreSQL, MySQL, MongoDB
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, SQS, API Gateway), Docker, Kubernetes, Jenkins, CI/CD Pipelines
- **Software Development Life Cycle:** Agile, Automated Testing (JUnit, Jest, Selenium, Cucumber)