Harsimran Singh Dhillon

Binghamton, NY | +1(607) 296-8536 | dhillonharsimran192@gmail.com | LinkedIn.com/in/harsimransinghdhillon

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 the 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, Node.js, RESTful APIs, Microservices Architecture, Apache Kafka, Apache Camel
- **Frontend Development:** Angular, React.js, Vue.js, HTML5, CSS, Bootstrap
- **Database Management:** PostgreSQL, MySQL, MongoDB, Amazon S3, Amazon DynamoDB, Big Query
- **Cloud & DevOps:** AWS (EC2, Lambda, SQS, API Gateway), Azure, Docker, Kubernetes, Jenkins, CI/CD Pipelines
- **Software Development Life Cycle:** Agile, Automated Testing (JUnit, Jest, Selenium, Cucumber)