

# SHIVAM MUNGRA

## Software Engineer

@shivammungra39@gmail.com

647-936-7535

shivammungra.vercel.app/

shivammungra

## SUMMARY

Experienced Software Engineer having experience in designing and implementing secure, scalable, and reliable cloud solutions across Azure and AWS environments. Adept in leveraging modern software development, DevOps, and Site Reliability Engineering (SRE) practices to deliver high-quality solutions. Proven leadership in driving projects from inception to completion, with a focus on cloud security, automation, and operational excellence.

## EXPERIENCE

### DevOps Engineer (Co-Op/PT)

Sheridan College Jan 2022 – Dec 2023

Oakville, ON

- Developed **Virtual Machine Scheduler** automation on Azure and AWS saving thousands of dollars per month
- Implemented IaC environments using Terraform for enhanced Azure and AWS platforms efficiency, leading to a 40% increase in deployment efficiency and a 30% reduction in operational costs
- Built and optimized CI/CD pipelines using Jenkins, Azure DevOps, and shell scripting, focusing on security and efficiency
- Successfully integrated Azure Advisor for real-time security insights, boosting Azure environment's security by 50% and optimizing compliance
- Developed a PoC of a real-time data analytics platform using Azure Data Factory, Azure Data Explorer, and Azure DevOps
- Successfully migrated a large dataset from on-premises SQL Server to Azure SQL DB using SQL Bulk Copy, managed via SSMS on a Windows VM, and secured with Azure Private Endpoints
- Deployed an Azure Log Analytics solution to monitor SQL server activities, utilizing KQL for data analysis and creating a dashboard for real-time user activity visualization
- Successfully transitioned and optimized DevOps workloads to the Azure DevOps platform, enhancing operational efficiency and system reliability
- Engaged in scripting and automation using Bash and Python, streamlining operational workflows
- Developed a real-time data analytics PoC, securing connectivity using Kafka, Docker, and Azure Kubernetes
- Created a cloud-to-cloud VPN tunnel for channeling traffic privately through a network Tunnel between Azure and AWS resources

## EDUCATION

Computer Systems Technology - Software Development and Network Engineering Co-Op  
Advanced Diploma Sheridan College Sept 2020 – Dec 2023 Brampton, Canada  
Graduated with Honors GPA 3.79/4.0

High School - Science Stream (Mathematics) Swaminaryan School April 2017 – April 2019 Gujarat, India  
98% in Computer Science & 91% Overall

## PROJECTS

**Loyalty Points System on Blockchain (Cardano, Plutus, Haskell, React, TypeScript)** Led a team and developed a **decentralized application** on Cardano rewarding users with points convertible to ADA tokens for time spent on e-commerce sites. Implemented **wallet connectivity** and time-tracking with **smart contract** integration for points validation and token conversion. Implemented comprehensive testing strategies to ensure robustness and reliability.

**Podcast Management Platform (Azure, Java, SpringBoot, JavaScript, HTML, CSS)** Developed a **web-based platform** for efficient podcast hosting and distribution, **integrated with Azure** for scalable content management. Focused on user-friendly interface and robust backend functionality, ensuring a seamless user experience.

**DSL for Database Queries (Haskell, SQL)** Developed a **Haskell-based domain-specific language** for querying educational data, showcasing functional programming and type-safe query construction. Implemented **custom data types** and **monadic query functions**, demonstrating advanced Haskell features.

## ACHIEVEMENTS

- Essential Google Cloud Infrastructure: Foundation
- Google Cloud Fundamentals: Core Infrastructure
- Cardano Solution Architect
- Cardano Developer Professional
- LinkedIn Learning Python | LinkedIn Python Standard Library Essential Training
- Gujarat State Champion in Roller Skating

## SKILLS

- Cloud Platforms:** Azure, AWS, Heroku
- CI/CD & DevOps Tools:** Jenkins, Artifactory, Git, Azure DevOps, Docker, Kubernetes
- Scripting & Programming:** Python, C#, C, C++, JavaScript, TypeScript, PowerShell, Java, Haskell, SpringBoot, Node.js, Angular, React, Next.js, Bootstrap, Tailwind
- Database Management & Engineering:** MySQL, Oracle, PostgreSQL, SQL Server Amazon Aurora, Data Warehousing, ETL Processing, Data Mining, Data Architecture, Big Data
- Other:** Data Structures & Algorithms, Terraform, Azure Blueprint, CloudFormation, IAM, Network Security, Encryption, Cloud Audit, REST APIs and Webhook development, JSON, ARM, YAML, Linux, Windows, Agile, Scrum, Kanban, Problem-solving, Communication, Leadership skills