

# SHIVAM MUNGRA

## Cloud | Full Stack | Blockchain Developer

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shivammungra

Brampton, ON Canada  
Shivam-1M

## SUMMARY

- An adept Cloud, Full Stack, and Blockchain Developer with proven experience in both academic and professional settings. With hands-on experience at Sheridan College, I excelled in cloud infrastructure roles, notably in Azure and AWS environments, emphasizing automation, security mitigation, and real-time data analytics.
- My blockchain proficiency is underscored by my work with Cardano and Plutus.
- I also boasts a broad technological skill set encompassing languages like C, C++, Java, and Haskell, as well as frameworks such as Spring Boot and .Net.
- My academic achievements, complemented by certifications from Emurgo Academy, further emphasize my dedication to the field.
- An enthusiast in Python and Blockchain on a personal level, I am also recognized for my exemplary performance in sports and has executed diverse projects from decentralized applications to dynamic websites and interactive games.

## EXPERIENCE

### Jr. Cloud Architect (Co-Op/PT)

#### Sheridan College

May 2023 – Dec 2023

Oakville, ON

- Developed IaC environment using Terraform, enhancing infrastructure and deployment efficiency for company's Azure platform
- Built report web app for accessing resource deployment reports via Power Bi on Azure
- Configured log streaming and real-time data analytics proof of concept using Confluent and Kafka services on various container technologies like Docker, Azure Container Instance, Azure Kubernetes
- Deployed workloads leveraging Azure Private Endpoints for secure connectivity
- Mitigated Security Issues based on infrastructure needs and Azure Advisor's recommendations at subscription and resource level

### Enterprise Architecture Analyst (Co-Op/PT)

#### Sheridan College

Jan 2022 – April 2023

Oakville, ON

- Developed Virtual Machine Scheduler automation on Azure and AWS saving thousands of dollars per month
- Implemented automated institution-wide resource tagging policies to enforce resource organization standards
- structured organizational standards creating and applying Azure Policy to granular and management level
- Developed a PoC navigation system for Sheridan College, which necessitated the learning of new technologies including Azure Maps, Python, and AutoCad
- Created a cloud-to-cloud VPN tunnel for channeling traffic privately through a network Tunnel between Azure and AWS resources.
- Pivoted DevOps workloads for the company to Azure DevOps improving planning and automating CI/CD
- Designed and developed automated organizational chart using Lucid-Chart diagramming tools

## HOBBIES

Cricket Python Swimming Blockchain Roller Skating

## 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
- NCC Java Programming Language Certification
- Gujarat State Champion in Roller Skating

## SKILLS

### Languages:

C C++ C# Java Haskell Kotlin HTML  
CSS JavaScript TypeScript PHP SQL  
Plutus

### Frameworks:

Spring .Net Next.js Bootstrap  
Tailwind JavaFX JUnit HSpec Pester

### Azure:

Azure Function Azure DevOps Event  
Grid Azure Container Instances Azure  
Kubernetes Azure Maps Azure Policy  
Private Endpoints Logic App IAM Roles  
Microsoft Purview Activity Log Azure  
Monitor Advisor API Management Power  
Bi

### AWS:

EC2 S3 DynamoDB CloudFormation  
CloudWatch AWS Lambda

### Other Essentials:

Linux Smart Contracts (Cardano Blockchain)  
Terraform Android Containers Apache

## EDUCATION

Computer Systems Technology - Software Development and Network Engineering Co-Op  
Advanced Diploma

**Sheridan College**

📅 Sept 2020 - Dec 2023

📍 Brampton, Canada

Honors GPA 3.78/4

Diploma in Web Designing

**NCE Institute**

📅 April 2019 – Oct 2019

📍 Gujarat, India

High School - Science Stream (Mathematics)

**Shri Ramkrishna Harikrishna Academy**

📅 April 2017 - April 2019

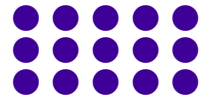
📍 Gujarat, India

98% in Computer Science & 91% Overall

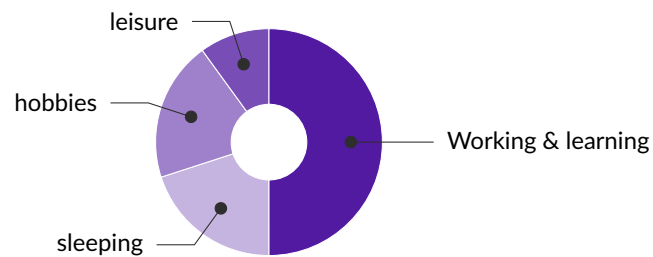
Kafka Big Data Hadoop NoSQL JSON  
YAML Git Database Data Structures  
Algorithms Analytical and Statistical skills  
Quick learner Independent and Team worker  
Mathematical skills Data Visualization and  
Research skills Multitasker Leadership  
Communication

## LANGUAGES

English  
Hindi  
Gujarati



## A DAY OF MY LIFE



## PROJECTS

### Loyalty Points System on Blockchain (Cardano, Plutus, Haskell, React, TypeScript)

- Developed a decentralized application on Cardano blockchain rewarding users based on their time spent on e-commerce websites visited through the application. The reward is in the form of points which can be converted to ADA tokens via a conversion feature.
- Users starts by connecting their wallet and start browsing the websites listed on the application which tracks time and uses event handlers to validate the user's interactions.
- The web application stores points on Blockchain through smart contract which is responsible for providing tokens to users when they convert their points and also ensures points validation at backend.

### Café Service (Java, SpringBoot, HTML, CSS)

- Developed a dynamic and responsive website to fulfill customer's order using Spring framework.
- Followed MVC design principles to ensure separation of concerns between the Model (customer), View (webpage), and Controller (interactions between the view and the model). Used Thymeleaf to get user input data from the HTML page. Applied the concept of controller which listens the events triggered by the view and executes appropriate reaction to these events.

### Blackjack Card Game (Java, JavaFX, JUnit, Git)

- Developed and lead an interactive game between the user and computer that uses algorithms to select appropriate cards from a given hand of cards and allows the user to continue playing till user wants, and keep tracks of the current score throughout the session.
- Designed use cases and developed UML diagrams using Visual Paradigm and maintained code on GitHub using Git.
- Debugged, tested, and developed a modular structure such that more players could be added without any additional code while practicing SDLC principles and requirement analysis.
- Improved application functionality by responding to issues, and user feedback.

### Inventory Management System (HTML, JavaScript, PHP, CSS)

- A multi-page web application using PHP myAdmin for MySQL database management for users to manage inventory stock with CRUD operations.
- Developed front-end webpages with HTML5, CSS3, Bootstrap and Javascript for client-side form validation and error handling to make POST requests when registering or verifying passwords, encrypted in the database using PHP.
- Used phpMyAdmin local server for administration of the database, used MySQL querying for data manipulation, and designed back-end architecture using PHP to set and receive cookies, and collect data for session management.