

# Aryan Singh

+1-437-966-1683 | [aryanssingh437@gmail.com](mailto:aryanssingh437@gmail.com) | [linkedin.com/in/aryansingh24](https://linkedin.com/in/aryansingh24) | [github.com/asynced24](https://github.com/asynced24)

## EDUCATION

<b>McMaster University</b>	Hamilton, ON, Canada
<i>Master of Engineering in Systems and Technology – Automation Smart Systems, GPA: 3.9/4.0</i>	<i>Jan 2025 – Dec 2026</i>
<b>Guru Gobind Singh Indraprastha University</b>	Delhi, India
<i>Bachelor of Technology in Electronics &amp; Computer Engineering, GPA: 3.7/4.0</i>	<i>Jun 2020 – Jun 2024</i>

## EXPERIENCE

<b>TD Bank</b>	Toronto, ON
<i>Software Engineer Intern (Co-op)</i>	<i>Sep 2025 – Present</i>
<ul style="list-style-type: none"><li>Reduced secrets misconfiguration by 30% by architecting Vault-backed schemas for CRM pipelines, standardizing secure access across services</li><li>Accelerated deployment cycles by 20% by refactoring Jenkins shared libraries in Groovy/Java</li><li>Designed CI/CD validation framework enforcing security gates, IAM policies, and deployment readiness checks across 15+ microservices, standardizing release quality across engineering teams</li></ul>	
<b>Angel Lane Partners</b>	Remote, UAE
<i>Machine Learning Developer Intern (Part-Time)</i>	<i>May 2025 – Aug 2025</i>
<ul style="list-style-type: none"><li>Enabled risk scoring for 10,000+ clients by co-developing an IFRS9-compliant Bayesian credit risk model</li><li>Improved credit model transparency by engineering 50+ risk features across financial, behavioral, and operational dimensions, enabling data-driven lending decisions at scale</li></ul>	
<b>K2 Nextgen Solutions</b>	Gurugram, India
<i>DevOps Engineer Intern</i>	<i>Jan 2024 – Sep 2024</i>
<ul style="list-style-type: none"><li>Accelerated release cycles by 40% by building CI/CD pipelines using Jenkins, Docker, and Terraform</li><li>Built serverless event-driven log analytics pipeline processing 50K+ events/second using AWS Kinesis, Lambda, S3, Athena, and Glue, reducing infrastructure costs by 35%</li><li>Improved application security by integrating Keycloak SSO and AWS security controls</li></ul>	
<i>DevOps Engineer Intern</i>	<i>May 2023 – Aug 2023</i>
<ul style="list-style-type: none"><li>Deployed containerized microservices on AWS using Docker and Ansible, reducing deployment errors by 30% and incident resolution time by 25% through centralized logging with Elastic Stack (ELK)</li></ul>	

## TECHNICAL SKILLS

<b>Languages:</b>	Java, Python, C++, JavaScript, Groovy, SQL, Bash/Shell, Powershell, HTML/CSS
<b>Cloud &amp; Infrastructure:</b>	AWS, Azure, Docker, Kubernetes, Terraform, Ansible, ELK, Linux/UNIX
<b>CI/CD &amp; SDLC:</b>	Jenkins, GitLab CI, GitHub Actions, Git, Agile/Scrum, Code Reviews, Jira, Confluence
<b>Testing &amp; QA:</b>	Test-driven development, JUnit, Pytest, Jest, Unit/Integration/E2E Testing
<b>Databases:</b>	MySQL, PostgreSQL, MongoDB, Azure SQL
<b>Frameworks:</b>	Spring, Node.js, Django, Flask, React, Bootstrap
<b>ML &amp; Data:</b>	PyTorch, TensorFlow, scikit-learn, PySpark, Pandas, NumPy, Transformers

## PROJECTS

<b>Multimodal Image Captioning with ViT and GPT-2</b>   <i>PyTorch, Transformers, ViT, GPT-2</i>	2025
<ul style="list-style-type: none"><li>Built end-to-end multimodal pipeline combining Vision Transformers for image encoding and GPT-2 for natural language caption generation, benchmarked on Flickr8K using BLEU, METEOR, and ROUGE metrics</li></ul>	
<b>Financial AI Risk &amp; Governance Framework</b>   <i>Python, XGBoost, LightGBM, MLflow</i>	2025
<ul style="list-style-type: none"><li>Developed modular Python framework for credit risk modeling using ensemble methods with integrated uncertainty estimation, calibration checks, and fairness diagnostics for transparent model governance</li></ul>	
<b>Fetal Health Classification ML Pipeline</b>   <i>PyTorch, scikit-learn, Pandas, NumPy</i>	2025
<ul style="list-style-type: none"><li>Built end-to-end classification pipeline achieving 95%+ F1-score through hyperparameter tuning, stratified cross-validation, and neural network architectures for multi-class fetal health prediction</li></ul>	

## CERTIFICATIONS

Deep Learning (Andrew Ng) | AWS Solutions Architect (A Cloud Guru) | Salesforce Flows (Udemy) | CS50 AI (Harvard)