

Aryan Singh

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EDUCATION

McMaster University	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>
Guru Gobind Singh Indraprastha University	Delhi, India
<i>Bachelor of Technology in Electronics & Computer Engineering, GPA: 3.7/4.0</i>	<i>Jun 2020 – Jun 2024</i>

EXPERIENCE

TD Bank	Toronto, ON
<i>Software Engineer Intern (Co-op)</i>	<i>Sep 2025 – Present</i>
<ul style="list-style-type: none">Built CI/CD validation framework enforcing security gates, IAM policies, and deployment readiness checks across 40+ microservices, reducing production incidents by 25%Accelerated deployment cycles by 20% by refactoring Jenkins shared libraries into reusable Groovy/Java components, enabling self-service CI/CD workflows across engineering teamsReduced secrets misconfiguration by 30% by architecting multi-tier Vault solution for CRM authentication, implementing test-driven credential schemas across platform services	
Angel Lane Partners	Remote, UAE
<i>Machine Learning Developer Intern (Part-Time)</i>	<i>May 2025 – Aug 2025</i>
<ul style="list-style-type: none">Enabled risk scoring for 10,000+ clients by co-developing an IFRS9-compliant Bayesian credit risk modelImproved credit model transparency by engineering 50+ risk features across financial, behavioral, and operational dimensions, enabling data-driven lending decisions at scale	
K2 Nextgen Solutions	Gurugram, India
<i>DevOps Engineer Intern</i>	<i>Jan 2024 – Sep 2024</i>
<ul style="list-style-type: none">Built serverless event-driven log analytics pipeline processing 50K+ events/second using AWS Kinesis, Lambda, S3, Athena, and Glue, reducing infrastructure costs by 35%Improved application security by implementing Keycloak SSO and AWS IAM policies across Kubernetes clusters	
<i>DevOps Engineer Intern</i>	<i>May 2023 – Aug 2023</i>
<ul style="list-style-type: none">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)	

TECHNICAL SKILLS

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

PROJECTS

Multimodal Image Captioning with ViT and GPT-2 <i>PyTorch, Transformers, ViT, GPT-2</i>	2025
<ul style="list-style-type: none">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	
Financial AI Risk & Governance Framework <i>Python, XGBoost, LightGBM, MLflow</i>	2025
<ul style="list-style-type: none">Developed modular Python framework for credit risk modeling using ensemble methods with integrated uncertainty estimation, calibration checks, and fairness diagnostics for transparent model governance	
Fetal Health Classification ML Pipeline <i>PyTorch, scikit-learn, Pandas, NumPy</i>	2025
<ul style="list-style-type: none">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	

CERTIFICATIONS

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