

# Puneet Sandher

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## EDUCATION

**University of Guelph** Sept. 2021 – May 2026  
*Bachelor of Computing in Software Engineering (coop), Minor Project Management* **GPA: 3.9**

## TECHNICAL SKILLS

**Languages:** Python, Java, C, SQL, JavaScript, TypeScript, HTML, CSS, R, Fortran, Ada, Cobol, C#

**Frameworks:** React.js, Node.js, JUnit, Bootstrap, ReactNative, Tailwind, Streamlit, Jest, Selenium, Spring Boot

**Developer Tools:** Git, Docker, VS Code, Figma, Jenkins, Jira, Grafana, Kubernetes, SonarQube, Azure, Terraform, Helm

**Libraries:** pandas, NumPy, Matplotlib, LangChain, seaborn, OpenCV, jQuery, Three.js, PyTorch, scikit-learn

## EXPERIENCE

**DevOps Engineer Intern** May 2025 – Aug. 2025  
*Munich Re* **Toronto, CA**

- Supported deployment and scaling of internal machine learning models by maintaining **CI/CD pipelines**, provisioning cloud-native infrastructure using **Terraform**, and optimizing resource allocation for model training and inference workloads.
- Developed and deployed **Kubernetes** (RBAC) policies using **Terraform** and **Helm** on **Azure DevOps** to enforce least-privilege access across isolated namespaces, enhancing security posture and compliance in multi-tenant environments.

**Site Reliability Engineer Intern** Sep. 2024 – Apr. 2025  
*Dayforce* **Toronto, CA**

- Migrated 4 pages of a legacy application from **HTML, CSS**, and **C#** to the SRE Watchtower platform using **TypeScript, Django ORM (Python)**, and **MySQL**, increasing operational efficiency by 11%.
- Developed 2 custom dashboards in **Azure Data Studio** to visualize key performance metrics, saving 45 hours annually by reducing manual monitoring efforts.
- Conducted a feasibility study on optimizing **Rundeck**'s node rebalancing to prevent overloads and reduce **PagerDuty** alerts by 30%.
- Developed a pilot mentorship program in the SRE department and contributed to the creation of a technology-wide mentorship initiative to improve employee development.

**Software Developer Intern** May 2024 – Aug. 2024  
*Royal Bank of Canada (RBC)* **Toronto, CA**

- Designed a **Grafana** dashboard displaying 150+ data center metrics by leveraging **APIs, Python**, and **Prometheus**.
- Deployed a **Grafana** dashboard in production using **Helios** and **Docker**, optimizing data visualization and visibility for 200 daily users.
- Developed 20 **unit, smoke**, and **regression tests**, utilizing **JUnit** and **Jenkins**, to achieve a 90% pass rate in the **CI/CD pipeline**.
- Selected as an **RBC Student Ambassador**, assisting the Early Talent team and mentoring current interns.

**Software Developer Intern** May 2023 – Dec. 2023  
*Royal Bank of Canada (RBC)* **Toronto, CA**

- Developed a full-stack application to dynamically visualize network graphs with **React.js, Batfish**, and **Docker**, improving network monitoring through an enhanced UI/UX.
- Developed an **LLM**-powered chatbot with **Streamlit** using **LangChain** RAG architecture and **OpenAI API**, enabling efficient knowledge retrieval from a 3,000-page team documentation repository via a **PostgreSQL** vector database.
- Designed and deployed 3 command modules for Slack and Cisco Webex chatbots to get real-time network data using **Python** and **REST APIs** in an **Agile** framework, saving 60 hours annually in operational efficiency.
- Delivered 2 presentations to the CTO on project results, shaping strategic direction with actionable insights.

## PROJECTS

**Canine Endoscopy Image Segmentation** | *Python, OpenCV, scikit-learn, PyTorch, pandas, NumPy, Matplotlib, Git*

- Engineered a **supervised machine learning** pipeline to detect abnormal intestinal regions in dogs from capsule endoscopy videos—converted 10 hours of footage into 80,000+ annotated frames, generated binary masks, and automated preprocessing with **OpenCV** and **NumPy**.
- Trained and fine-tuned deep learning segmentation models including **U-Net** and **SAM2**, achieving high visual accuracy in classifying regions of interest; results support real-time clinical insights and scalable veterinary diagnostic tools.

## CERTIFICATIONS

**Certified Associate in Project Management (CAPM)**

Mar. 2025