

AAKANKSHA PHARANDE

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SUMMARY

SRE / DevSecOps Engineer with hands-on experience in **Azure infrastructure**, **container orchestration**, and automation using **Terraform** and **CI/CD pipelines**. Focused on improving reliability, streamlining operations, and enabling secure, scalable solutions through data-driven insights using Power BI and the Azure observability stack.

TECHNICAL SKILLS

Software Development

- Languages/ Frameworks Python, JavaScript, HTML/CSS, Terraform
- Databases MySQL
- Tools/Technologies Git, Azure DevOps, CI/CD, REST, Docker, Kubernetes, Power BI, Orca

System and Networking

- Networking OSI Model, TCP, UDP, IPv4/IPv6, DNS, DHCP, HTTP/HTTPS
- Operating Systems Linux (Ubuntu), Windows (8/10/11)

Cloud Computing (Azure)

Compute (VMs, AKS, Function App, Logic App), Storage Account, Key vault, Networking (VNet, Subnet, NSG, Private Endpoints), Application Gateway, Firewall, Azure AD, IAM (RBAC, PIM), Azure Sentinel, Azure Monitor, Log Analytics Workspace, Application Insights, Azure Workbook, and Cost analysis

WORK EXPERIENCE

SecOps Engineer (Co-op)

May 2025 – Present

Semperis, Ottawa, Canada

- Designed and implemented an **asynchronous**, modular **data fetching engine** using **Azure Functions**, **Key Vault**, **Blob Storage**, and **Terraform**, integrated with OIDC-secured **CI/CD pipeline**. This solution automated the collection of external security data from various sources using **REST APIs**, reduced manual reporting effort, and improved reliability - laying the groundwork for **scalable, long-term reporting infrastructure**.
- Built and maintained Power BI dashboards using data from Orca Security, Entra ID, Snyk, and GitHub Advanced Security to **monitor security posture** - providing actionable insights for the CISO and AppSec teams, streamlining monthly reporting, and supporting **data-driven** risk management decisions.
- Redesigned the existing queries by replacing hardcoded tokens with **managed identities and service principals** and enabled **automated data refreshes**. This **reduced security risk**, enforced best practices, resulting in a **time savings of ~1 hour per day** that was previously spent on manual updates.

Application Developer (Co-op)

January 2024 – April 2024

Canadian Imperial Bank of Commerce (CIBC), Toronto, Canada

- Partnered with the DevOps team to enhance infrastructure deployment for the Forms Management (FM) product on **Azure**, utilizing **Infrastructure as Code (IaC)**, ensuring streamlined and repeatable releases.
- Containerized FM application microservices and deployed them to **Azure Kubernetes Service (AKS)**, improving scalability and simplifying environment management for development and testing.
- Designed and deployed a **Power BI dashboard** to analyze incident trends, leading to a **10% faster decision-making process** across cross-functional teams by providing clearer, **data-driven** insights.

Lead Teacher

August 2022 – October 2022

Wize Computing Academy, Ottawa, Canada

- Instructed students aged 7-14 in **Python programming** and **robotics**, providing hands-on guidance in debugging and **problem-solving** to enhance their technical skills.
- Designed engaging, real-world projects that fostered **computational thinking** and inspired creativity, helping students connect programming concepts to practical applications.

UX Designer (Intern)

January 2022 – March 2022

Ashwamedh Engineers & Consultants, Nashik, India

- Collaborated with the web development team to **enhance the user experience** of a client's website based on business requirements and customer feedback, resulting in a **20% increase in user engagement** and a **15% decrease in bounce rate** within the first month.
- Conducted **usability testing** and **gathered user feedback** to inform design decisions, ensuring the website effectively addressed user pain points and **improved overall satisfaction**.

EDUCATION

Cloud Development and Operations (Co-op Program)

September 2024 – Present

Algonquin College, Ottawa, Canada

CGPA: 3.99/4.0

Web Development and Internet Applications

September 2022 – December 2023

Algonquin College, Ottawa, Canada

CGPA: 3.99/4.0

Bachelor and Master of Environmental Architecture (M. Arch)

July 2013 – April 2020

Dr. Bhanuben Nanavati College of Architecture, Pune, India

CERTIFICATIONS

CompTIA Security+

January 2025

Microsoft Azure AI Fundamentals (AI-900)

September 2023

Microsoft Azure Fundamentals (AZ-900)

April 2023

PROJECTS

Best Buy Store Application | *Python, Node.js, Azure Service Bus, AKS, CI/CD* | [GitHub Link](#)

- Designed a **cloud-native** e-commerce app using **microservices architecture** and deployed on AKS.
- Developed various backend and frontend services, integrating **event-driven messaging** with Azure Service Bus and MongoDB for persistent storage.
- Leveraged **Azure OpenAI** for generating product descriptions and images.
- Implemented a **CI/CD pipeline** for continuous integration and deployment to the production environment.

Cloud Migration Scenarios | *Azure, AWS, Google Cloud, Azure Migrate, Cost Analysis, Draw.io* | [GitHub Link](#)

- **Developed migration plans** for client applications transitioning from **on-prem to cloud**, utilizing strategies like **Lift-and-Shift**, **Re-platforming**, and **Re-architecting**.
- Designed **technical network architecture diagrams** using Draw.io for the proposed cloud infrastructure.
- Conducted **cost analysis** comparing cloud services, illustrating financial implications of migration.

AWARDS

Algonquin College - Dean's Honors List

2022 - 2024

CIBC - Innovation Challenge Winner and Exceptional Student

April 2024

ANCWT - 3 Minute Technical Pitch Competition Runner-up

December 2023

EXTRA-CURRICULAR / VOLUNTEER EXPERIENCE

Team member, Marketing Coordinator

November 2023 – Present

TiE, Ottawa, Canada

- Designing **marketing content** for TiE Con 2024, focusing on creating **engaging** social media campaigns on Instagram and LinkedIn to **boost event visibility** and audience engagement.
- Played an instrumental role in orchestrating the TiE Entrepreneurship Summit, 2023, actively facilitating registration, managing logistics, and overseeing event coordination for over 1,000 attendees.