

# ELISHA HAYER

## TECHNICAL SKILLS

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**Cloud & DevOps:** Azure, Cloudflare, Infrastructure as Code (Bicep, ARM), Docker, Git, Azure DevOps, CI/CD

**Security:** DevSecOps (Trivy, Checkov, MS Security DevOps), IDS, 2FA, OWASP Top 10, RBAC

**Monitoring:** Grafana, Prometheus, Azure Monitor (Application Insights, Log Analytics, Metrics)

**Automation/Scripting & Web/Frameworks:** Python, PowerShell, Bash, SQL, YAML; Flask, Django

**Systems & Databases:** Linux, Windows, macOS; Azure SQL, MySQL, Oracle, SQLite

**Soft Skills:** Communication & Collaboration, Stakeholder Engagement, Leadership, Problem Solving, Client Focused

## PROFESSIONAL DEVELOPMENT

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**Microsoft Certified: Azure Fundamentals** – *In Progress (Expected June 2025)*

**ISACA (Information Systems Audit and Control Association) Vancouver Chapter** – Member

## RELEVANT WORK EXPERIENCE

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### Platform Engineering Co-op Student

Jan 2025 - present

BC Housing, Burnaby, BC

- Engineered cloud-native monitoring frameworks with Azure Monitor, Log Analytics, Application Insights, and Grafana, incorporating telemetry and alerting to enhance performance, uptime, and compliance
- Developed end-to-end CI/CD pipelines using Bicep templates and Azure DevOps to deploy containerized applications, reducing deployment time by 50%
- Implemented DevSecOps best practices by integrating vulnerability scanners Trivy, Checkov, and MS Security DevOps to secure Infrastructure as Code (IaC) deployments
- Diagnosed and resolved broken dependencies by analyzing pipeline and build logs, improving CI/CD stability, and reducing build failure rates
- Managed Linux-based cloud application environments with Azure App Services, including configuration of RBAC and Key Vault integrations
- Designed and documented end-to-end system architecture and functional requirements for a technical PoC, translating business goals into scalable, secure solutions aligned with project constraints

## RELEVANT TECHNICAL PROJECTS

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### Two-Factor Authentication Integration in Django Web Application

- Enhanced the security of a Django-based web application by implementing a secure **two-factor authentication (2FA)** system to protect administrative access
- Configured **web server** to manage secure device registration and QR-based authentication
- Integrated a **middleware**-based rate-limiting mechanism to mitigate security risks such as DDoS attacks
- Conducted application-level **testing** by simulating real-world admin access scenarios to verify **secure authentication and error handling**

### Secure Role-Based Access Control System for Sensitive Data

- Developed a Python-based **role management system** to control user access to sensitive information, supporting the enforcement of **least-privilege access policies**
- Engineered class methods and data structures to **track and limit active roles**, ensuring users operate within approved access boundaries; Simulated real-world access scenarios to identify **edge cases**
- Refactored functions to reduce time complexity from **O(N)** to **O(1)**, enhancing system performance

# ELISHA HAYER

## Real-Time Intrusion Detection with Machine Learning on Time-Series Data

- Developed a real-time intrusion detection system using **multivariate time-series data** and **machine learning models** to identify anomalies in critical infrastructure systems
- Preprocessed and cleaned time-series datasets for supervised and unsupervised **ML**; applied **PCA** for feature selection and dimensionality reduction
- Visualized trends and model results using **R (ggplot2, corrplot, ggbiplot)** to support analytical storytelling
- Summarized methods, insights, and outcomes in a **technical report** and **presentation**; **collaborated** in a 4-person team using **Git** for version control

## Video Rental Store Platform with Flask API and Azure SQL Integration

- Developed a **REST Web API** using **Flask** and **Python** to interact with **Azure SQL database**
- Handled data ingestion, transformation, and secure transactions through **API endpoints**
- Designed and **tested** transaction workflows to simulate real-world customer interactions and inventory updates, optimizing API performance

## OTHER WORK EXPERIENCE

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### Tutor

2022 - present

Self-Employed, Vancouver, BC

- Delivered personalized tutoring in Math, Chemistry, and Physics, improving test scores by over 20%
- Maintained ongoing communication with clients to report progress and adapt learning plans, demonstrating strong interpersonal and data-informed decision-making skills

### Customer Service Agent, contract with extension

2020 - 2021

Maximus Canada, Victoria, BC

- Delivered client-focused support in high-pressure environments, managing 125+ inquiries daily while maintaining over 95% customer satisfaction and zero escalations
- Recognized for adaptability, technical fluency, and frequently relied on for peer technical support and real-time issue resolution

### Student Research Assistant, contract

2018

StemCell Technologies Inc., Vancouver, BC

- Collaborated with cross-functional teams to optimize experimental protocols, improving efficiency and data quality in cell isolation and analysis, resulting in the deployment of two new products
- Saved \$10,000 by applying a detail-oriented approach, leading to reduced rework in operational processes
- Conducted data analysis and created visualizations to support decision-making, presenting findings to senior management

## EDUCATION

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### Simon Fraser University

Burnaby, BC

### Post Baccalaureate Diploma - Computer Science

est. 2025

### University of Victoria

Victoria, BC

### BSc - Biochemistry and Chemistry

2018