

Fatemeh Karam

Burnaby, BC | +1(604) 773-3964 | Email | LinkedIn | Portfolio | Github

PROFESSIONAL SUMMARY

Technical professional with experience spanning backend development, data analytics, cybersecurity, and IT systems support. Skilled in Python, SQL, threat intelligence, and dashboard development, with a proven ability to build data-driven and security-focused solutions. Experienced in optimizing databases, supporting virtualized environments, and developing analytics and intrusion-detection projects that transform complex technical data into actionable insights.

TECHNICAL SKILLS

Programming & Data Analysis

Python (Pandas, NumPy, Matplotlib), SQL, Data Cleaning, Exploratory Data Analysis (EDA)

Data Visualization & Storytelling

IBM Cognos Analytics, Dashboard Design, Trend Analysis, Data Storytelling

Databases

MySQL, SQLite

Tools & Platforms

Excel (PivotTables, Formulas), Jupyter Notebook, Google Colab, Microsoft Office

Cybersecurity & Analytics

Threat Intelligence, OSINT Integration, eBPF Monitoring, Intrusion Detection, Security Analytics

Development

Python (Flask), PHP (CodeIgniter), REST APIs, Git/GitHub

Foundations Exposure

Statistical Analysis, Data Modeling Concepts, Predictive Analytics (Academic / Lab Projects)

FEATURED PROJECTS

Threat Intelligence Assistant (RAG + OSINT)

Python · Web Application · Threat Intelligence

- Built a Retrieval-Augmented Generation (RAG) web app integrating OSINT APIs (AbuseIPDB, AlienVault OTX).
- Automated enrichment of threat indicators (IPs, domains, hashes).
- Generated structured intelligence reports and risk summaries for analyst workflows.

Live Demo:

<https://huggingface.co/spaces/Katiefkar/Threat-Intelligence-Assistant-Oct-15-2025>

GitHub:

<https://github.com/FatemehKaram/rag-threat-intel-assistant-app>

Behavior-Based HIDS using eBPF & LSTM

Linux · Machine Learning · Cybersecurity

- Developed a host-based intrusion detection system using eBPF for real-time kernel telemetry.
- Built an LSTM model to detect anomalous process behaviors.
- Improved threat detection accuracy while maintaining low system overhead.

Applied Data Analysis & Visualization Project

Python, SQL, Excel | [GitHub](#)

- Performed end-to-end data analysis including preprocessing, validation, and exploratory analysis.
- Conducted trend, correlation, and outlier analysis to identify business insights.
- Built visualization models using Pandas, NumPy, and Matplotlib.

Technology Trends Dashboard – IBM Cognos Analytics

IBM Cognos Analytics | [GitHub](#)

- Designed an interactive multi-tab dashboard analyzing technology usage and adoption trends.
- Transformed raw survey data into executive-ready insights.
- Applied data storytelling techniques for stakeholder reporting.

PROFESSIONAL EXPERIENCE

IT Support Specialist | September 2019 – July 2022

Boomerang Rayaneh Company | Tehran, Iran

- Optimized virtualization environments (VMware, VirtualBox), improving provisioning speed by 25%.
- Coordinated system updates, patches, and backups, reducing downtime by 40%.
- Applied ITSM troubleshooting and documentation practices, reducing repeat incidents.
- Collaborated with internal teams and vendors to deploy upgrades with minimal disruption.

Web Developer & Database Administrator | March 2011 – September 2019

Boomerang Rayaneh Company | Tehran, Iran

- Developed and maintained PHP/MySQL web applications with 90%+ uptime.
- Improved performance by 30% through query optimization and indexing.
- Tuned MySQL databases via slow-query analysis and server configuration.
- Deployed and managed Linux servers, improving reliability and performance.

IT Technician | Jul 2005 – Feb 2008

Arayeh Negar Pishrow Company | Tehran, Iran

- Supported IT system upgrades and deployments.
- Produced troubleshooting and setup documentation.
- Delivered user support and coordinated vendor services.

EDUCATION

Junior Data Analyst Program | January 2026

NPower Canada | Vancouver, BC

Master of Science in Cybersecurity | May 2024

New York Institute of Technology (NYIT) | Vancouver, BC

Bachelor of Science in Computer Engineering (Software) | February 2011

Azad University | Tehran, Iran

CERTIFICATIONS

IBM Data Analyst Professional Certificate | January 2026

Coursera

Microsoft Azure AI900 Professional Certificate | November 2025