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# Mohammad Yekrangian

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## Professional Summary

Seasoned Cybersecurity and ML Solutions Architect with extensive experience in designing and optimizing scalable AI/ML infrastructure. Proven expertise in deploying machine learning models in cloud environments and integrating CI/CD pipelines. Adept at collaborating with cross-functional teams to enhance ML workflows and ensure high availability and performance in distributed systems.

## Work Experience

### Sr. Lead Cybersecurity Solutions Architect – Applied AI/ML | JPMorgan Chase & Co

*June 2022 - Present*

- • Architected scalable deployment infrastructure for AI/ML applications, ensuring seamless integration with CI/CD pipelines on AWS EKS.
- • Secured applications using OWASP standards, enhancing compliance with MITRE ATLAS guidelines.
- • Developed and deployed NLP and ML applications to automate cyber threat intelligence, improving detection accuracy.
- • Built advanced pipelines using Large Language Models for structured data extraction from threat reports.
- • Partnered with teams to identify high-impact AI/ML use cases, driving innovation and operational efficiency.

### Security Architect – API Security | JPMorgan Chase & Co.

*December 2021 - May 2022*

- • Developed security policies for AWS resources using Terraform, enhancing API security posture.
- • Evaluated and fine-tuned ML features in API security products, aligning with NIST security controls.
- • Built Elastic Search dashboards to provide insights and highlight risks within API products.

### Security Solutions Architect | IBM CFO (Finance and Operations)

*July 2020 - November 2021*

- • Implemented data security solutions for finance databases, detecting anomalies in user behavior.
- • Rolled out secret management tools and applied ML techniques for compromised password detection.
- • Designed secure remote development environments and enforced IBM CISO security policies.

### Lead Security Architect | IBM CISO (Security Operation Center)

*July 2018 - June 2020*

• Led a team to deliver security solutions for SOC, clarifying responsibilities and fostering team collaboration.

• Enabled new releases of security platforms and integrated third-party tools with SOC operations.

• Developed network behavior visualization models and investigated security events for information leak prevention.

## Skills

**Technical Skills:** Machine Learning, Natural Language Processing, Cybersecurity, Cloud Infrastructure

**Tools & Technologies:** AWS, Kubernetes, Docker, Terraform, Jenkins, FastAPI, ELK Stack, IBM Qradar

**Soft Skills:** Team Leadership, Strategic Planning, Cross-Functional Collaboration

## Education

**Post Graduate Program, Artificial Intelligence and Machine Learning** | The University of Texas at Austin

*2021*

**AAS Cyber Security** | Houston Community College

*2014*

**AAS Computer Systems Networking and Telecommunications - MCITP** | Houston Community College

*2013*

**B.Sc. Software Engineering** | Azad University of Iran

*2009*

## Certifications

• Cloud Core, IBM

• Data Analysis Using Python, IBM

• Artificial Intelligence and Machine Learning, IBM

• Advanced Architecting on AWS

• Security Engineering on AWS

• Cisco Network Fundamental

## Projects

**Auspex: Building Threat Modeling Tradecraft into an AI-based Copilot**

• Developed innovative threat modeling applications using AI, published in arXiv.

**University of Texas at Austin Bioinformatics Projects**

- Built bio computational pipelines, providing insights for evolutionary biology research.

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