

# Career Hacking: Going From n00b to Chaos Wrangler

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Deck and Resources: <https://aka.ms/ChaosWrangler>

# Setting the stage



WHY?



HOW DO YOU  
GET IN?



IS IT YOUR  
PASSION?

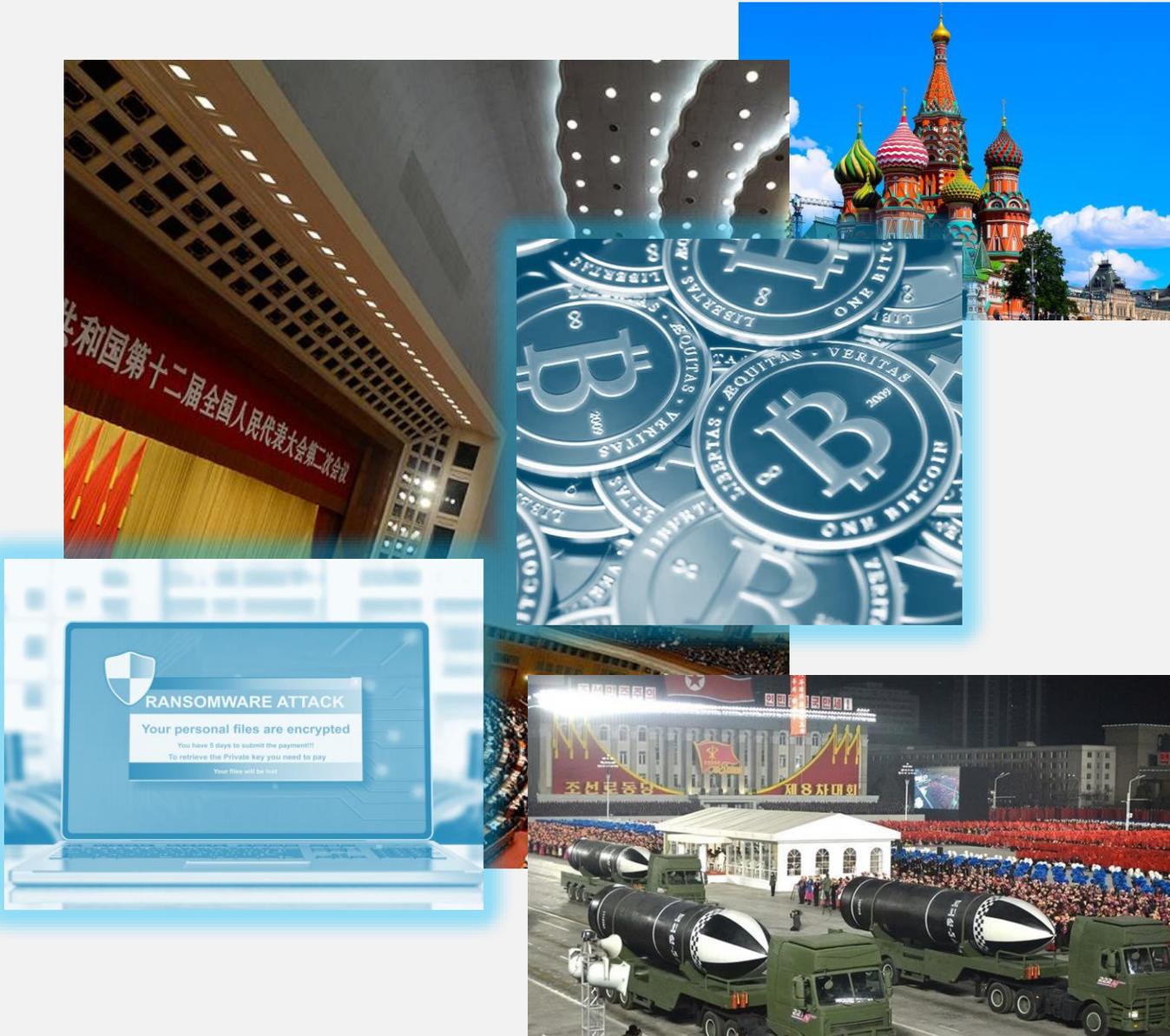


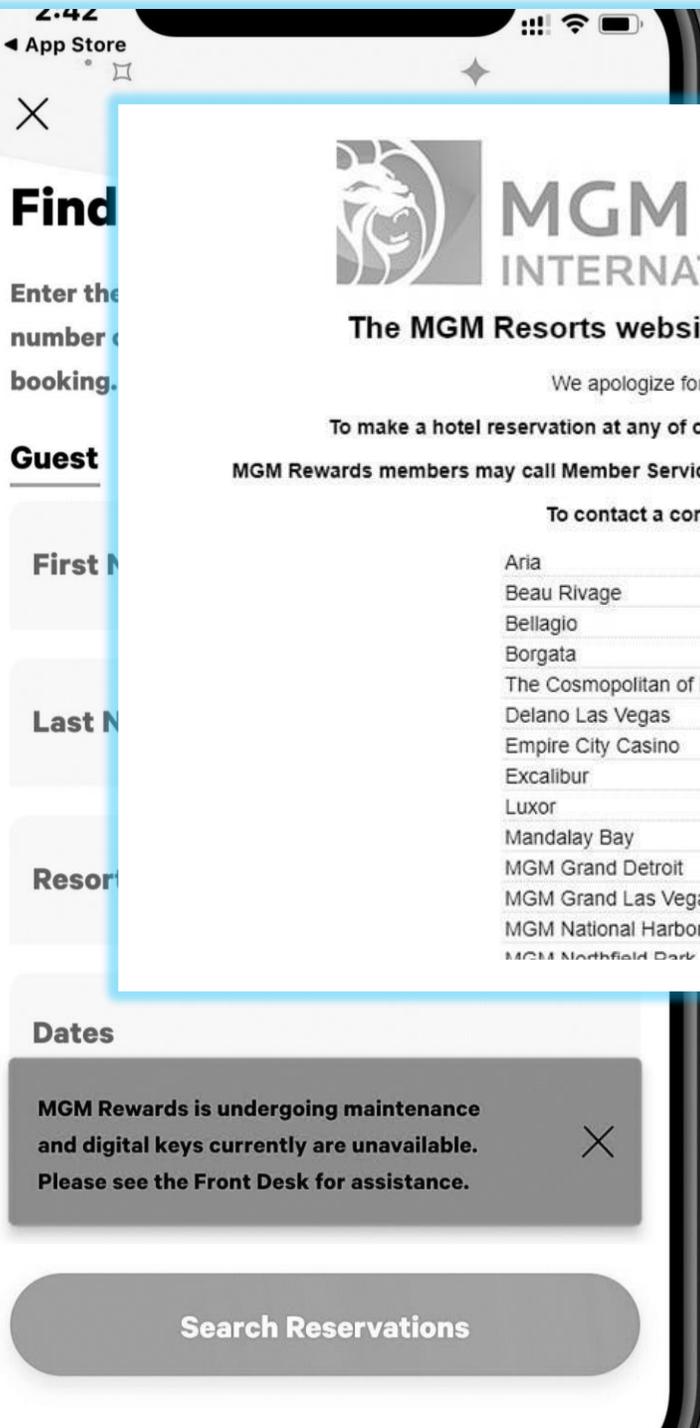
SO WHAT?

# State of Cybersecurity

- Threats are evolving
- Number of threat actors are growing
- Security products and services are not perfect
- Cybersecurity is a never-ending race

**How can you join the mission?**





# MGM RESORTS INTERNATIONAL®

**The MGM Resorts website is currently unavailable.**

We apologize for the inconvenience.

To make a hotel reservation at any of our destinations, please call 855-788-6775.

MGM Rewards members may call Member Services from 6 AM to 11 PM Pacific time at 866.761.7111.

To contact a concierge, please call:

Aria	702.590.9520
Beau Rivage	228.386.7111
Bellagio	702.693.7075
Borgata	609.317.1000
The Cosmopolitan of Las Vegas	877.893.2003
Delano Las Vegas	702.632.4760
Empire City Casino	866.745.7111
Excalibur	877.660.0660
Luxor	702.632.4760
Mandalay Bay	702.632.4760
MGM Grand Detroit	877.888.2121
MGM Grand Las Vegas	877.660.0660
MGM National Harbor	844-646-6847
MGM Northfield Park	920.908.7625

MGM Resorts recently identified a cybersecurity issue affecting some of the Company's systems. Promptly after detecting the issue, we quickly began an investigation with assistance from our internal cybersecurity experts. We also notified law enforcement and took prompt action to protect our systems and data, including shutting down certain systems.

The investigation is ongoing, and we are working diligently to determine the nature and scope of the matter.



# MGM RESORTS INTERNATIONAL™





# My Journey - so you know how



- **AP World History Teacher @Rochester City School District**
- **Technology Specialist @Rochester City School District**
- **Edtech Consultant/Trainer/Deployment @Eduscape**
- **Technical Seller - Window EDU @Microsoft**
- **Program Manager – EDU Partner Ecosystem @Microsoft**
- **Product Manager – Defender Experts @Microsoft**
- **Service Delivery Manager @Microsoft**

# What is your goal?

- **Analyst:** Protects computer networks from cyber attacks by monitoring, investigating, and fixing security issues.
- **pen-tester:** Simulates attacks to test the security of computer systems, networks, applications and databases.
- **threat-hunter:** Proactively finds and stops advanced cyber threats that may evade security systems.
- **AI innovator:** Creates new AI models, algorithms, tools or frameworks for cyber defense, threat detection, incident response, risk assessment or vulnerability analysis.
- **Service Delivery Manager:** Manages the relationships with external security vendors and partners and monitors the performance and quality of the security services delivered to the clients.



## Example Job Posting:

**Job:** Service Delivery Manager

**Profession:** Engineering

**Location:** Remote



**Description:** In this role you will work with an assigned set of customers and guide them throughout their managed service. You will represent Microsoft to them and constantly demonstrate the value we bring to the customer through weekly syncs, reports, and finding resolutions to their issues. At the same time, you will also have the duty to represent the customer to Microsoft and our product teams. If representing both Microsoft and our customers sounds interesting to you, please consider becoming a Solution Delivery Manager.

### Qualifications:

- High-level of understanding of broad Security concepts, including Zero Trust, MITRE ATT&CK framework, and Secure-by-Design.
- Effective communication skills: adapting your style and level of information based on the audience
- Ability to forge strong relationships with customers (Business Decision Makers, CSOs and IT Leaders), communicating on behalf of Engineering, facilitating understanding of our value proposition and our services; direct experience working with customers
- An ability to work well within fast-paced, ambiguous situations where you need to define the problem, goal, solution and see it through to the end to deliver tangible outcomes
- Ability to meet Microsoft, customer and/or government security screening requirements are required for this role. These requirements include, but are not limited to the following specialized security screenings:
  - Microsoft Cloud Background Check: This position will be required to pass the Microsoft Cloud background check upon hire/transfer and every two years thereafter.

## Example Job Posting:

**Job:** Senior Security Engineer

**Profession:** Engineering

**Location:** Remote

The logo for BlueVoyant, featuring a blue diamond icon followed by the text "BlueVoyant" in white.

**Description:** A SecEng will collaborate at the direction of the CISO to ensure that platform/product teams are aware of, and use, best practices for SecDevOps in delivery of their job functions. This will include building, maintaining and training on reference implementations for IaasCode instances (e.g., Hashicorp Vault, terraformed networking configurations, etc.). SecEng will also work with Software Engineering teams to ensure that the software delivery pipeline is as efficient and secure as possible using leading SecDevOps techniques.

### **Qualifications:**

- Hands on experience using the AWS, GCP, and Azure console and CLI/SDK
- Mastery experience within AWS, GCP, and Azure
- Mastery experience with Linux + Windows Servers
- Mastery experience with Cloud Security
- Expertise implementing solutions in public cloud Iaas/PaaS
- Expertise in monitoring, administering, troubleshooting and identifying solutions in a cloud environment.
- Expertise in PKI Infrastructure
- Proficient experience with Hashicorp Tools
- Proficient experience with containerization platforms (Docker, Kubernetes, etc.)
- Proficient experience with Microsoft Applications
- Experience within cloud infrastructure including areas of sizing, provisioning, monitoring, and capacity management

# How do we change?

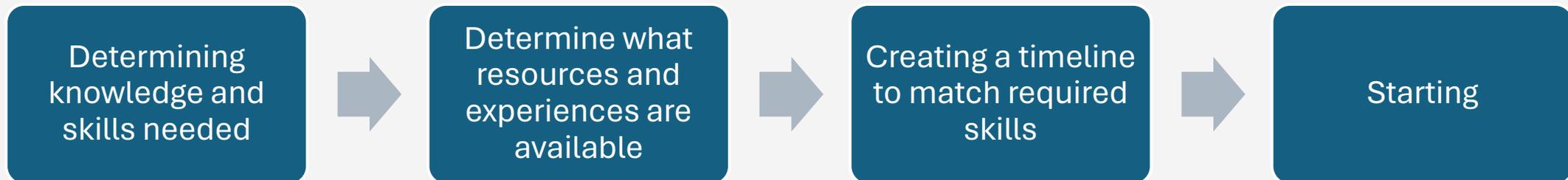
- Knowing the industry and options
- Understanding our transferable experience
- Setting a goal and/or target
- Determining gaps
- Creating action plan

## Determining Next Steps

Skills & Knowledge Needed

— Transferable Knowledge & Skills

— Skills gap/Learning Opportunity





# Beginning your Journey

## News

- [Microsoft Security Blog](#)
- [SANS White Papers](#)
- [Google Security Blog](#)
- [Cybernews](#)
- [The Hacker News](#)

## Product Agnostic Learning

- [UDEMY: Cyber Security Course for Beginners - Level 01](#)
- [Coursera: Introduction to Cyber Attacks](#)
- [Pluralsight: The Information Security Big Picture \(Free Trial\)](#)
- [Cybrary: Cybersecurity Foundations](#)
- [edX: Cybersecurity](#)

## Product Learning/Certifications

- [Microsoft Security](#)
- [Palo Alto Networks](#)
- [AWS Security](#)
- [CrowdStrike](#)
- [Google](#)

## Local Communities

- [ISC2 Chapters](#)
- [Cloud Security Alliance \(CSA\) Chapters](#)
- [Information Systems Security Association](#)
  - [Rochester ISSA](#)

## Product Agnostic Certifications

- [CompTIA Security+](#)
- [GIAC](#)
- [CISSP](#)
- [CISA](#)
- [CISM](#)

## Learning Labs

- [Hack the Box](#)
- [Try Hack Me](#)
- [Pentester Lab](#)



# Creating Your Network

## Regional Conferences

- [Find Local Bsides](#)
  - [BSidesROC - Saturday March 23, 2024](#)
  - [Bsides Buffalo – June 2024](#)
- [Regional Black Hat Events](#)
  - [SecTor – Black Hat](#)

## LinkedIn Groups

- [Canadian Cybersecurity Network](#)
- [Cyber Security](#)
- [CyberSecurity Community](#)

## National Conferences

- [Black Hat](#)
- [Blue Hat](#)
- [Def Con](#)
- [RSA Conference](#)

## LinkedIn Contacts

- [Mona Ghadiri @ Blue Voyant](#)
- [Ed Martin @ Microsoft](#)
- [Caleb Freitas @ Blue Voyant](#)
- [Michael Melone @ Microsoft](#)
- [Abhishek Agrawal @ Microsoft](#)
- [Cordell BaanHofman @Red Canary](#)
- [Rick Davis @ Microsoft](#)
- [Angela Marafino @ Kudelski](#)



# Career Planning Template

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Cybersecurity Career Planning Template

The Basics	
Name:	
Cybersecurity Career Aspiration	
Timeframe:	<input type="checkbox"/> 3 Months <input type="checkbox"/> 6 Months <input type="checkbox"/> 9 Months <input type="checkbox"/> 12 Months
What Potential Target Roles Would You Like to Explore?	<ul style="list-style-type: none"><li>• Goal Job 1: • Link to Job Post:</li><li>• Goal Job 2: • Link to Job Post:</li><li>• Goal Job 3: • Link to Job Post:</li></ul>
List of Current Mentors or Colleagues:	<ul style="list-style-type: none"><li>•</li><li>•</li></ul>
Take Inventory	
Skills/Qualifications Needed for Your Next Job:	<ol style="list-style-type: none"><li>1.</li><li>2.</li><li>3.</li><li>4.</li><li>5.</li><li>6.</li><li>7.</li><li>8.</li><li>9.</li><li>10.</li></ol>
Your Top Skills/Qualifications in Cybersecurity:	<ol style="list-style-type: none"><li>1.</li><li>2.</li><li>3.</li><li>4.</li><li>5.</li></ol>
Growth Opportunities Regarding Skills/Qualifications in Cybersecurity:	Growth Area 1: Resources Available to Grow: Time To Achieve: Growth Area 2: Resources Available to Grow: Time To Achieve: Growth Area 3:

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Resources Available to Grow: Time To Achieve: Growth Area 4: Resources Available to Grow: Time To Achieve: Growth Area 5: Resources Available to Grow: Time To Achieve:	
Your Communities and Group Memberships Regarding Cybersecurity:	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>
Take Action	
Courses/Labs That Will Help You Acquire Skills:	<ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>
Experiences/Events to Meet Cybersecurity Practitioners /Influencers:	<ul style="list-style-type: none"><li>• Local Groups:<ul style="list-style-type: none"><li>○</li></ul></li><li>• Regional Conferences:<ul style="list-style-type: none"><li>○</li></ul></li><li>• National Conferences:<ul style="list-style-type: none"><li>○</li><li>○</li></ul></li></ul>
Increasing Social Network:	<input type="checkbox"/> Connect With Experts on LinkedIn <input type="checkbox"/> Schedule Informationals With People in Cybersecurity with Your Ideal Role <input type="checkbox"/> Join Online/Virtual Communities
Demonstrate Ability	
Create Assets for The Cybersecurity Community:	<input type="checkbox"/> Create "how-to" Videos (Tik Tok, Reels, YouTube) <input type="checkbox"/> Write Blogs on a Cybersecurity Topic
Create Visibility Within the Cybersecurity Community:	<input type="checkbox"/> Re-post Influencer Content with Thoughts <input type="checkbox"/> Present at Local/Regional Conferences <input type="checkbox"/> Attending Cybersecurity Meetups <input type="checkbox"/> Connect with Hiring Managers and Recruiters
Apply for Multiple Jobs	

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Apply for the Job, Over-and-Over:	<input type="checkbox"/> Identify 20 Interesting Jobs <input type="checkbox"/> Connect with Specific Hiring Managers/Recruiters <input type="checkbox"/> Write Job Specific Resumes
Interviewing:	<input type="checkbox"/> Learn Everything You Can About the Role Ahead of Time (Job, Company, Manager, Potential Co-Workers) <input type="checkbox"/> Schedule Informationals With People on or Near the Hiring Team <input type="checkbox"/> Create Job Specific Talking Points to Reference in Interview <input type="checkbox"/> Cite Clear Examples with Ample Data to Support

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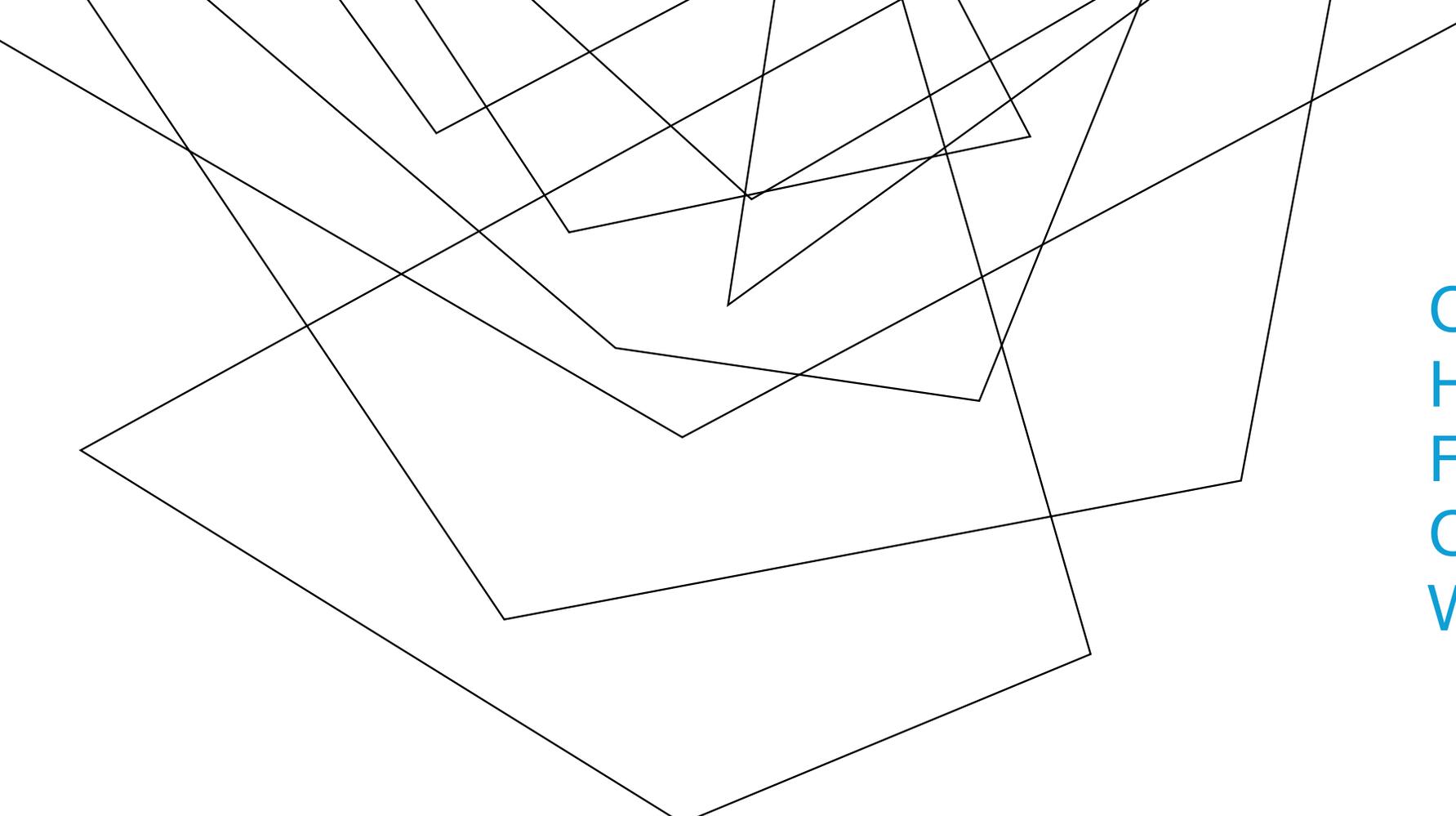


Template: <https://aka.ms/ChaosWrangler>

# Tips and Tricks to Shorten the Journey

1. Develop a Strong Foundation
2. Pursue Relevant Education and Certifications
3. Learn About Cybersecurity Fundamentals
4. Stay Informed
5. Build Practical Skills
6. Networking
7. Create an Online Presence
8. Specialize
9. Soft Skills Matter
10. Apply for Internships and Entry-Level Positions



A series of overlapping, irregular black lines forming a complex, abstract geometric pattern in the upper left quadrant of the slide.

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## DISCUSSION



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