HYOEUN CHOI

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SUMMARY

Versatile professional who rapidly masters unfamiliar domains, consistently surprising supervisors with exceptional performance. I excel in developing PoC, having successfully commercialized products generating \$1M in revenue. My cybersecurity expertise combines out-of-the-box thinking with meticulous attention to detail, solving problems through both technical and innovative alternative approaches. Driven by insatiable curiosity, I document insights on my blog and pursue continuous education, including an AI program at Texas McCombs Business School. With an entrepreneurial mindset, I lead projects proactively while aspiring to launch my own startup.

EXPERIENCE

Cybersecurity Analyst

Visa Inc - Mobile & Mac Security Team

- Conducted comprehensive security assessments including penetration testing across mobile platforms, web
 extensions, and IoT devices while providing architectural guidance to development teams, ensuring
 security-conscious design and protecting sensitive corporate and consumer data.
- Led a 3-year infrastructure initiative to replace an external vendor solution with a custom in-house alternative, resulting in approximately \$1M cost savings while maintaining comprehensive security monitoring capabilities.
- Architected and implemented an end-to-end automated threat intelligence pipeline that monitors global app marketplaces, identifies security vulnerabilities, auto-assigns incidents via ticketing, and provides continuous monitoring—creating a comprehensive security response system.
- Published monthly internal newsletters for developers, delivering actionable insights on emerging mobile threats and security practices, resulting in increased awareness and faster issue resolution.

Security Researcher CableLabs

Jun 2020 – May 2021 Remote

Jan 2019 – Jun 2019

Seoul, South Korea

• Designed and implemented ML-based anomaly detection models achieving 95% accuracy in identifying BGP attacks, processing 100,000+ daily BGP updates to prevent network compromises.

Security Engineer

Eloicube

- Independently completed the PoC stage of a product that later launched as a firewall management solution, from research and design to implementation.
- Engineered robust ETL processes in C# handling 1M+ daily firewall events, ensuring data integrity and compliance with security standards.

EDUCATION

Texas McCombs School of Business	Austin, TX
Post Graduate Program in Artificial Intelligence and Machine Learning GPA: 4.06/4.33	Aug 2024
Leveraged machine learning techniques for anomaly detection, strengthening cybers	ecurity systems.
Johns Hopkins University	Baltimore, MD
Master of Science in Security Informatics GPA: 3.93/4.0	Dec 2021
 Representative on Whiting School of Engineering(WSE) Graduate Committee. 	
 Tapia Scholarship, RSA[®] Conference Security Scholarship. 	
Handong Global University	Pohang, South Korea
Bachelor of Science in Computer Science GPA: 3.82/4.0	Aug 2019
President of Computer Research Association, Academic Excellence Scholarship (top	5%).

CERTIFICATIONS

Jan 2022 – Present Austin, TX

Taxi Ride Sharing Application

Sep 2018 - Aug 2019

- Served as the project manager and lead developer for a hybrid app exclusively for campus students, achieving 90% student registration and over 1,000 active users.
- Utilized a cloud-based microservice architecture on AWS and deployed both mobile and web applications using the lonic hybrid framework, ensuring accessibility across multiple platforms and improving user experience.

Intranet for University

Jun 2016 - Aug 2017

- Developed a secure, campus-exclusive intranet using Django, serving as the primary communication hub for serving 5,000+ students. Applied OWASP Top 10 security standards and conducted penetration testing, resulting in improved information security and usability.
- Implemented secure coding practices, OAuth 2.0 for authentication, and conducted internal penetration testing to ensure it was the first secure intranet for the university.