LinkedIn
GitHub
Portfolio

Micaela Sinn

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Entry-level cloud and network engineering enthusiast with a strong foundation in **cloud infrastructure**, **network architecture**, and **cybersecurity**. Hands-on experience in building and securing AWS-based systems, designing network topologies, and conducting penetration testing in simulated environments. Skilled in **infrastructure automation**, **network security**, and multiple programming languages, with additional exposure to **machine learning**. Known for adaptability, a collaborative mindset, and the ability to work effectively in multicultural and technical environments. Eager to contribute to innovative cloud and security initiatives in a global setting.

Education

Hankuk University of Foreign Studies (03.2019 – 02.2025)
B.A. in German Interpretation and Translation
B.E. in Computer and Electronic Systems Engineering

Exchange Student
Julius-Maximilians-Universität Würzburg (08.2022 – 03.2023)

Relevant Couesework & Training

Cloud Security Engineering Programme (Gov.)
Jan – Jul.2025
AWS architecture, WAF, XDR, security monitoring.

LG Aimers — Data Intelligence Bootcamp
Jul – Aug.2024
defect detection ML project.

Wanted Learning – Information Security *Jun.2024*
security fundamentals, threat analysis.

KG IT Bank – Programming & Infrastructure
May – Nov.2023
Python, Java, C/Data Structures, Linux fundamentals

University Coursework
Data Structures, Web Programming, Computer Architecture, Information Security, Deep Learning, Mobile Programming, Capstone (Android), Game Programming (Unity), Social Network Analysis, Probability & Statistics.

Languages

Korean (Native)
English (Professional)
Japanese (Intermediate)
German (Intermediate)
Spanish, French, Swedish (Basic)

Technical Skills

Cloud & Security: AWS (EC2, VPC, S3, RDS, Route 53, CloudFront, IAM, Auto Scaling, WAF, GuardDuty, CloudFormation)
Networking: Cisco Packet Tracer, VPN, VLAN, ACL, Firewall, DHCP
DevOps & Automation: Docker, Kubernetes (minikube), Jenkins, Terraform, Prometheus, Grafana, Zabbix, CloudWatch
Security & PenTesting: Kali Linux, Metasploitable, WebGoat, XDR, vulnerability scanning & exploitation, log analysis
Programming: Python, Java, C, C#, Kotlin, PHP, JavaScript, HTML/CSS
Data Science: Prophet, ETS, GAT, NumPy, Pandas, Matplotlib
Other Tools: Git & GitHub, Vi, Ubuntu/CentOS

Certifications & Other

OPIc (IH) Test ID: 2C9839005541 (Feb 2025)
WebGoat / Bandit Labs – Completion (Internal)

Key Projects

AWS-Based Secure Architecture Project *Jul 2025 · Team of 6*
Purpose: Designed and deployed a two-tier hotel booking web service on AWS, integrating security and real-time monitoring.
Tech Stack: AWS (EC2, RDS, S3, Route 53, CloudFront, ElastiCache), WAF, ACL, Docker, GuardDuty, Prometheus, Grafana, Zabbix, CloudWatch.
Role: Network and security architecture design, WAF policy configuration, XSS/SQLi mitigation, logging & monitoring setup.
Outcome: Successfully defended against simulated web attacks and built an automated real-time security monitoring environment.

Network Configuration Project (Cisco) *Mar 2025 · Team of 5*
Purpose: Designed and simulated a secure, large-scale virtual network environment connecting multiple global branches (U.S., Berlin, Busan, Jeju).
Tech Stack: Cisco Packet Tracer, Site-to-Site VPN, Static Routing, VLAN, DHCP.
Role: Configured and integrated Berlin branch network and participated in overall topology design.
Outcome: Established stable communication between all branch nodes and the central data centre with secure VPN routing.

ESXi-Based Security Monitoring & Intrusion Detection *Jun 2025 · Team of 6*
Purpose: Conducted penetration testing on a vulnerable server to collect and analyse attack traces for defensive strategy development.
Tech Stack: Kali Linux, Metasploit, Metasploitable, password-cracking tools, log analysis utilities.
Role: Led attack scenario execution, vulnerability analysis, and forensic log review.
Outcome: Identified exploitable vulnerabilities and documented actionable insights to strengthen defensive posture.

Machine Learning Prediction Project *Apr – Jun 2024 · Team of 3*
Purpose: Analysed the impact of pandemics (H1N1 & COVID-19) on US stock indices and forecasted trends using ML forecasting models.
Tech Stack: Python, Graph Attention Network (GAT), Prophet, ETS
Role: Data preprocessing, model development, result interpretation and visualisation.
Outcome: Achieved high forecasting accuracy (A ≈ 0.97) and produced interpretable visual models.

Experience

Assistant Teacher — J English Zone *Jul 2020 – Jan 2025*
Developed an Excel-based score management system adopted across the institute.
Conducted grading and student feedback sessions for multiple levels.
Led substitute classes and ensured lesson continuity during staff absence.

Teacher — Dongtan Eduplus *Dec 2018 – Oct 2019*
Delivered personalised tutoring in multiple subjects.
Designed monthly evaluation materials and tracked student progress.
Facilitated academic consultations to support individual learning plans.

Leadership & Activities

President, German Academic Journal "LUPE" *2019 – 2022*
Led editorial operations and team management

Exchange Student, Germany *2022 –2023*
engaged in academic collaboration and intercultural projects.