SANGYUN KIM

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OBJECTIVE

Senior Computer Science student and Counterintelligence Agent 35L trainee, highly motivated and dedicated to continuous learning. Certified in Google's Cybersecurity and IT Support, with a strong foundation in full-stack web development, real-time embedded systems, IT, and cybersecurity. Actively pursuing CompTIA Security+ certification, with a commitment to improving skills and valuing the journey of learning. Dedicated to becoming a valuable asset to the government and serving the community with integrity and dedication.

EDUCATION

BA Computer Science | Boston University

SEPT 2023 – Expected Graduation May 2025
GPA: 3.68
Honors: Dean's List
Courses: Advanced Software System, Software Engineering, Full Stack Development

BS Computer Science | University of Massachusetts Boston

SEPT 2021 – SEPT 2023
GPA: 3.789
Honors: Dean's List
Courses: Intermediate and Advanced Data Structure and Algorithms, Computer Architecture and Organizations

United States Army Ordnance School | Fort Lee VA

NOV 2020 – APR 2021
Description:
- 12-week program with a focus on maintaining wheeled vehicles, associated trailers and material handling equipment systems

Courses:
- Automotive Electricity, Automotive Transmissions and Transaxles, Brake Systems, Diesel Engines, Steering and Suspension Systems

EXPERIENCE

Special Agent in training | United States Army Reserve

APR 2024 – CURRENT
- Counterintelligence Agent conducts investigations, collects and processes forensic and physical evidence to identify and detect foreign intelligence and international terrorist threats, and plan the appropriate countermeasures to neutralize them

Wheeled Vehicle Mechanic | United States Army Reserve

JULY 2020 – APR 2024
- Supervising and performing maintenance and recovery operations on wheeled vehicles and associated items, as well as heavy-wheeled vehicles and select armored vehicles
- Worked in 94th MP Company to inspect, service, maintain, repair, and test HMMWV, MTV, LMTV, and FMTV for 382nd Brigade
- Experienced Field Training Exercises and assisted Close Quarter Combat and hostage rescue scenarios alongside Military Police

SKILLS

Programming Language
- Assembly Language
- C language
- Java
- JavaScript
- Python
- React JS
- React Native Expo
- SQL
- TypeScript

Tech Stack and Tools
- .Net framework
- Firebase DB
- Linux
- Mac OS
- Microsoft Office
- SIEM Tools
  (Splunk, Google Chronicle)
- Visual Studio and VS Code
- Windows

Language
- Native Korean Speaker
- Fluent in English

Certificates
- Google Cybersecurity
- Google IT Support

PROJECTS

Personal SSH Server | C Language

AUG 2024 – SEPT 2024

Description:
- Set up an SSH server on a Raspberry Pi 5, configured with custom port forwarding to enhance security by reducing bot attacks on the default SSH port (22)
- The setup leverages knowledge from the Google Cybersecurity and IT Support Certificate to manage Domain Name System (DNS), routers, port forwarding rules, and SSH key configurations
- Github Link (https://github.com/SPC-Toad/ssh-server)

Sonar TCP Server | C language & Arduino

AUG 2024 – AUG 2024

Description
- Implemented a server that receives data from an Arduino-based sonar system using Transmission Control Protocol (TCP) connection, logging the distance and angle of detected objects
- The system is designed to monitor the environment and record the presence of foreign entities
- Github Link (https://github.com/SPC-Toad/sonar-tcp-server)

C Chat Server | C language

AUG 2024 – AUG 2024

Description
- This project is a simple multithreaded chat server written in C, utilizing socket programming and select() to handle multiple clients simultaneously
- Each client can send and receive messages in real-time, with the chat history being saved to a chat-log file
- Github Link (https://github.com/SPC-Toad/c-chat-server)

Personal Website | React JS & Three.js

MAY 2023 – CURRENT

Description
- Developed personal website using React JS and Three JS
- Improved responsiveness of the website (desktop and mobile friendly)
- Detail can be found in the README (https://github.com/SPC-Toad/professional-portfolio)
- Website Link
- Website Link (Hosted on Raspberry Pi 5)

Google IT Support Certificate | Coursera

JUN 2024 – AUG 2024

Description:
- 6-month program with focus on detail-oriented IT Support: Technical Support Fundamentals, Operating Systems and You: Becoming a Power User, IT Security: Defense against the digital dark arts, System Administration and IT Infrastructure Services, The Bits and Bytes of Computer Networking
- View certificate here

Finds – Powerful File Searching Tool | C language

Feb 2024 – Mar 2024

Description:
- "Finds" is a powerful command-line tool designed to search for a specified string within files and directories. It extends the basic string search functionality to support regular expressions with specific control characters for more flexible and complex search patterns
- Demonstration video in GitHub (https://github.com/SPC-Toad/unix_file_string_search)

Unix Function | C Language

FEB 2024 – MAR 2024

Description:
- This project consists of tools for examining sections and symbols of object files
- The tools implement functionalities similar to "objdump -h" and "nm" commands
  (There are both static and dynamic library versions of these tools available)
- Github Link (https://github.com/SPC-Toad/unix-function-public)

Google Cybersecurity Professional Certificate | Coursera

Jan 2024 – Jan 2024

Description:
- 9-month program with focus on detail-oriented cybersecurity: experiencing with identifying threat, risks, and vulnerabilities; security hardening; threat modeling; and incident escalation and response
- View certificate here

Courses:
- Manage Security Risks | Detection and Response | Linux and SQL | Networks and Network Security | Automated Cybersecurity Tasks with Python | Assets, Threats, and Vulnerabilities | Foundations of Cybersecurity

Hada Language Learning App | React Native Expo & Firebase DB

Jan 2024 – MAY 2024

Description:
- Hada is a Korean flashcard learning app that leverages the power of spaced repetition to optimize the learning process. Unlike other platforms, Hada is designed to streamline your learning experience, making it simpler, more efficient, and tailored to your needs
- Contributed as a Software Engineer in the Agile environment
- Github Link (https://github.com/Project-Hada/Hada-App-Client)

KatApp | React Native & C# .NET & Firebase DB

Jan 2024 – May 2024

Description:
- KatApp helps cat owners manage their cat's health and information efficiently. By leveraging the power of AI, users can scan cat food barcodes, receive a breakdown of product information, get insights on best sellers from Amazon, and maintain records of past QR codes scanned
- Contributed as a Software Engineer in the Agile environment
- Github Link (https://github.com/neezacoto/KatApp)

RSA Encryption | Python

Oct 2023 – Nov 2023

Description:
- Implemented RSA encryption and decryption in Python using both Euler's theorem and Matrices
- More information about RSA encryption using Euler's theorem here
  (https://github.com/SPC-Toad/rsa_encryption)
- More information about RSA encryption using Matrices here
  (https://github.com/SPC-Toad/rsa_matrix)