

Jacob Jeong

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EDUCATION

Rutgers University

Bachelor of Art in Computer Science

New Brunswick, NJ

Sep. 2022 - May. 2025

GPA: 3.4 / 4.0

Relevant Courses: Object-Oriented Programming, Data Structures, Data Science 439, Software Methodology, Data Management for Data Science, Microeconomics, Computer Architecture, Discrete Structures, Systems Programming, Integral Calculus, Design & Computer Algorithms,

Activities: Dean's List, Rutgers CyberSecurity Club, Korean Student Association, Division 3 Soccer (Feb 2022 - May 2022), RU Club Soccer (Nationally Ranked)

TECHNICAL SKILLS

Security Tools: Wireshark, NMap, Ghidra

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS, C#, Bash (Learning)

Developer Tools: Node.js, Git, Linux, IntelliJ, VS Code, React, JUnit, PowerShell

Certifications: CompTIA Sec+, Google Cybersecurity Certification

PROJECTS

Database Development and Data Analytics | *Java*

- Developed and implemented a functional database utilizing JDBC (Java Database Connectivity), with an integrated user interface, successfully integrated online data using key.
- Conducted data analytics for a website with hundreds of users, utilizing various tools and techniques to extract valuable insights and inform business decisions.
- Maintained data integrity and security through regular backups, data validation, and access controls.
- Continuously improved database performance by optimizing queries, indexing, and data storage strategies.

Wifi Network Configuration | *Linux, Firewall, VPN*

- Designed and built a router with integrated firewall capabilities, ensuring secure packet transmission between devices and preventing unauthorized access to the network.
- Configured and tested Virtual Private Network (VPN) functionality to provide encrypted remote access, enhancing data security during transmission.
- Applied vulnerability assessment techniques to identify weaknesses in the router's security protocols, implementing mitigation strategies to minimize risks.

Personal Website | *HTML, CSS, Bootstrap*

- Developed and designed my personal frontend website to write and introduce myself
- Utilized HTML, CSS, and Bootstrap to make the website organized and responsive

DNS Cache Monitoring and Malicious IP Detection System | *PowerShell, Python, Virus Total API*

- Developed and implemented a Windows-based solution to periodically extract and store cached DNS entries using PowerShell scripts and Windows APIs.
- Designed an automated alert system to notify admins in real time upon detecting malicious IPs, reducing response time to threats.
- Integrated VirusTotal Community API to assess DNS entries for potential malicious activity, enhancing security monitoring capabilities.

EXPERIENCE

Blue Ribbon Academy

Programming Instructor

Ridgefield, NJ

Mar. 2022 - Aug. 2024

- Taught web development using JavaScript, programming logic and basics of Python.
- Managed incident response, ensuring quick decision-making in high-pressure situations.
- Implemented forgot password functionality on the that allows users to reclaim their passwords through an automated email through API calls and token generation.