

# Jacob Jeong

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<https://jacob6023.github.io/>

## EDUCATION

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### 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

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**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

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### 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 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

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### Rutgers University

*Rutgers IM Supervisor*

**New Brunswick, NJ**

Jan. 2023 - May. 2025

- Managed incident response, ensuring quick decision-making in high-pressure situations.
- Coordinated game logistics, including scheduling, setup, and enforcement of policies.
- Acted as the primary on-site problem solver for disputes, injuries, and operational challenges