Abdul Adhim
Computer Engineering Graduate

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A committed lifelong learner with a degree in computer engineering. Mature with a strong sense of responsibility, passionate about producing high-quality results. Seeking to utilize my education and technical skills in a challenging position to further my career in tech.

Skills

Programming languages: C, Java, JavaScript, MongoDB, OCaml, Python, SQL.
Development Skills: MySQL, HTML/CSS, Django Python Framework, Heroku, SDLC (familiar), CI/CD pipelines.
Computer Skills: Git/GitHub, NoSQL Management, RDBMS, Unix Commands.
Pen Testing Skills: Binary Exploitation, Forensics, Reverse Engineering, Web Exploitation.

Languages

• Fluent in English, Indonesian, and Malay
• Beginner level in Japanese.

Education

Toyo University, Japan

Bachelor of Information Networking for Innovation and Design

CGPA: 4.03/4.30
Relevant Coursework: Software Engineering, Database Management Systems, Artificial Intelligence, Algorithms and Data structure, Computer Architecture, Computer Networks, Computer Systems, Operating Systems, Programming Language.
Cum Laude Honors: Completed bachelor's degree with a 4.03/4.30 CGPA.
Summa Cum Laude Honors: Completed the first year of bachelor's degree with a 4.17/4.30 CGPA.
Toyo Top Global Scholarship A: Received a full scholarship as a bachelor's student at Toyo University. The scholarship is supported by MEXT (Ministry of Education, Culture, Sports, Science and Technology) in Japan.

Hobby & Interests

• Reading security articles/patches.
• Studying and practicing security books about malware, security certifications, black hat coding, CTF problems, etc.
• Have used tools like Wireshark, nmap, Ghidra, Burp Suite, KaliOS, and Windows AD.
• Running and exercising.

Research & Projects

Slack Reminder App
Dec 2019

Project – Extension for Slack [link]
• Created an extension for Slack application which is used as a reminder that can be set from Slack chat itself.
• Used Slack **API** (**JSON**) to set the reminder. The website to display the reminders was made with the **Django** framework and deployed on the **Heroku** cloud platform.
• Implemented **HTML/CSS** and **Bootstrap** framework as the front end to display the list of existing reminders.

Simple Android App
Dec 2020

Project – Mobile application
• Programmed an **Android** application using Java to perform basic actions such as button clicking, and changing sizes and colors of shapes.
• Put into practice concepts like **OOP**, **UML**, design patterns, **software testing**, and **CI/CD** pipelines.

The SDG Game
Jan 2021

Project – Website [link]
• Developed a game on a website, to raise awareness about the SDG (Sustainable Development Goals).
• Deployed the front-end side of the game with **HTML/CSS**.
• Integrated **JavaScript** to implement the functionalities in the game and modify its game points.

Student Communication Website
Dec 2019

Project – Website [link]
• Built a website that runs locally using the **Django** framework with chatrooms functionality for multiple students' discussions.
• Designed the front-end of the site using **HTML/CSS**.
• Added functionalities like adding/deleting/modifying posts and adding/removing chatrooms. As well as account authentication and (**SQL**) database management.

Entropy-based Detection Method against DoS/DDoS attacks
Jan 2022

Research [link]
• Analyzed the effectiveness of detecting DoS/DDoS attacks using an entropy-based detection method in a software-defined network (SDN) environment.
• Simulated an SDN environment using a tool called Mininet.
• Utilized tools like **JavaScript** to implement the detection program, **REST API** and sFlow-RT to monitor network traffic, and hping3 to simulate a DDoS attack.

Experience

Facilitator for a Cybersecurity Training Week
Oct 2021

Volunteer
Information-technology Promotion Agency (IPA), Japan (*Japan-US Industrial Control Systems Cybersecurity Week*)
• Facilitated 4 out of 40 participants in a hands-on cybersecurity training of the program.
• Encouraged participants who felt hesitant to talk or ask questions.
• Successfully guided trainees to attack and defend a small-scale, remote industrial control system.
• Motivated participants to think critically on hypothetical situations from a point of view of an attacker and a defender.

Presentations

"Entropy-based Detection Method against DoS/DDoS attacks"
Jan 2022

Presented at an information security conference in Osaka, Japan. (SCIS 2022, Symposium on Cryptography and Information Security).