Jodie Lim Zhuo Ying

NOC Application Video: https://drive.google.com/file/d/1csmTU-6Csgm6E4-LuyDUqZjhV4TM_7vE/view?usp=sharing

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| **Github:** https://github.com/jodielzy | **Website:** https://jodielzy.github.io/personal-website/

PROFILE SUMMARY

I'm an Information Security undergraduate at NUS with a strong interest in cybersecurity and web development. I enjoy tackling CTF challenges, building intuitive user interfaces, and automating tasks with code. Proficient in C/C++, Python, and Java, I bring hands-on experience from hackathons and a solid grasp of security fundamentals, programming, and system design.

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE   Aug 2023 - May 2027
Bachelor of Computing in Information Security
- Enrolled in the University Town College Programme (UTCP), residing in Residential College 4 (RC4), renowned for its theme of "Systems Thinking"
- Relevant Courses Taken: Computer Security, Introduction to Operating Systems, Introduction to Computer Networks, Data Structures and Algorithms, Digital Ethics and Data Privacy, Linear Algebra for Computing, Calculus for Computing
- Programming Languages: C, C++, Java, Python, MIPS Assembly

NANYANG JUNIOR COLLEGE   Jan 2021 - Oct 2022
Singapore-Cambridge GCE Advanced Level
- Took H2 Mathematics, H2 Physics, H2 Economics, H1 Chemistry, H1 General Paper, H1 Project Work

TECHNICAL SKILLS

- Cybersecurity Skills: Encryption, Web and Network security, Call stack analysis, Reverse engineering using tools like Wireshark, Ghidra, and GDB
- Web Development: HTML, CSS, Flask, Figma, Render
- Programming Fundamentals: Data Structures and Algorithms, Object-Oriented Programming (OOP), Computer Organization, Version Control in Git, Vim for efficient code editing
- Operating Systems: Process management, Memory management, and Synchronization
- Machine Learning & Data Science: Random Forest, Decision Trees, Neural Networks

ACHIEVEMENTS

- Top 10 Finalists of LifeHack 2024
- Finalist of BrainHack 2024 Cyber Defenders Discovery Camp
- Top 15 Finalists of PSA Code Sprint 2024
- Top 5 Finalists of Data Decades

PROJECTS

PERSONAL WEBSITE
- A digital copy of my portfolio
- Visit https://jodielzy.github.io/personal-website/ for more details

LIFEHACK 2024
- Used Ant Colony Optimization Algorithm to compute optimal patrol routes
- Used a few models including randomForests and Neural Networks to predict crime hotspots

PSA CODESPRINT 2024
- Built a portal to keep track of vessel location
- Developed a prediction model to predict vessels' arrival time at the port, considering factors such as weather conditions and social unrest

TIKTOK TECHJAM 2024
- Built a dynamic web application that represents TikTok e-commerce platform, TikTok shop
- Included functions such as shopping cart, purchase, and top-up credits using a pop-up kiosk

HACK&ROLL 2024, SHORTCAT
- Built a game aimed at teaching the elderly and children basic keyboard shortcuts for Windows
- Includes features such as a tutorial and a type-racer style competition between users