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Wee Jun Hong Software Engineer

Portfolio: whoisjunhong.github.io github.com/whoisjunhong linkedin.com/in/weejunhong

EDUCATION

BSc. Honours Computer Science, National University of Singapore - NUS Sports Scholarship

Aug 2020 — Dec 2023 (Expected)

Specialisation: Software Engineering, Computer Security, Networking & Distributed Systems

Relevant Coursework: Software Engineering, Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Computer Security, Computer Networks

Leadership & Activities:

- Teaching Assistant: IS1108 (Digital Ethics and Data Privacy) AY22/23
- NUS Sports Club: 42nd MC Vice-President (External), 41st MC Project Director (RunNUS 2021)

TECHNICAL EXPERIENCE

Visa 16 May — 4 Aug 2023

Software Security Engineer Intern, Mobile & Mac Security (MMS) Team

- Performed ethical penetration testing on various Visa mobile and Mac assets to simulate real-life security vulnerabilities and scenarios
- Developed tools and frameworks required performing advanced and complex mobile security assurance and ethical hacking activities
- Analyzed security gaps in mobile technologies and frameworks that lack standard validation methodologies and incorporate remediation practices to reduce risk posture of Visa products and assets.
- Technologies: Python, NodeJS, Java, Swift, Kotlin JavaScript, Objective-C

DSO National Laboratories May — Aug 2022

Software Security Engineer Intern, Cybersecutiy Lab (CSL)

- Researched on Living-Off-the-Land Binaries (LOLBins), Binary Analysis, Reverse Engineering for Penetration Testing on Windows 10 Enterprise Machines
- Implemented Pre & Post-exploits for Windows 10 Enterprise Machines using Covenant C2
- Designed and implemented pentesting tools using **Python**, **PowerShell** and **Bash** to automate manual pentesting, saving over multiple days to perform static analysis on LOLBins vulnerabilities on Win10
- Developed new techniques & tools to enhance effectiveness of LOLBins exploits using MITRE ATT&CK frameworks

United Overseas Bank May — Aug 2021

Banking Technology Associate Intern, Group Technology Operations (GTO)

- Monitored, analyzed and developed release data of security patches/fixes and its implementation status
- Automated the creation release deployment packages in QA and Production Environments through CI/CD Pipelines using Bash
 which minimises the tedious manual work per deployment
- Automated the tracking and retrieval of large influx (>30k) of daily bug reports and issues using Bash and VBA, saving an
 average of 10 hours per week of manual filtering and reporting work

MQ Spectrum May — Aug 2017; Mar — May 2018

Software Engineer Intern, Software Development Team

- Development, integration and maintenance of web-based applications LMS using Moodle, PHP, HTML, CSS, MySQL
- Refined performance, functional, regression and unit-tests using Selenium for running multiple tests across browsers and OS, saving up to 20 hours per week of manual testing
- Planned and established the company's technical program for on-boarding of new interns that includes Software Development,
 SDLC, Version Control and Unit Testing

PROJECTS

Project Help Swift, Objective-C, Java, Android Studio, Xcode, MySQL

- Developed a 1-Click volunteer service mobile application for facilitation of elderly service requests
- Implemented pay-it-forward point system for users to use for other service requests

Traffic Surveillance Application

Java, Android Studio MySQL, OBD2 Controllers

- Developed a mobile application to facilitate the process of monitoring SAF transport operators on public roads
- Executed mock trials and achieved a 100% violation detection rate compared to the 66% by vehicle commanders
- Pitched idea to panel of educational and industry experts that got to the finals of LHL Interactive Media Award 2017

SKILLS

Tools and Languages Java, Python, C, C++, SQL, PHP, Bash. Git

Databases MySQL, SQLite, Firebase Storage

Web Development
JavaScript, TypeScript, HTML/CSS, Bootstrap
Technologies
Github, Git, Apache, Vim, ŁTFX, SourceTree, Figma

Communication English (Fluent), Chinese (Fluent)