AARON TI

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Having a curious mindset towards computer science, I always seek for new directions to gain more knowledge. From binary exploits to web development, computer renders to assembly, these are some of the fields within computer science that I have worked on. Being passionate in developing my skills and knowledge in computer science, I actively take up a myriad of opportunities to learn as much as I can.

SKILLS

- Programming
- Malware Analysis
- Full Stack Development
- 3D Design & Rendering

EXPERIENCE

Coding

- Python, C, C#, C++, Nim, Rust, Golang, Javascript, Java, Assembly

Technologies/Environment

- Windows, Linux, OpenGL, Web frameworks, Docker, Cinema4D, Blender, Unity, UnrealEngine

EMPLOYMENT HISTORY

Intern at Institute of High Performance Computing (IHPC) A*STAR   **May 2017 – Jan 2018**

- Using high performance simulation software to understand the behavior of light and electromagnetic waves in both dielectric materials as well as metals.
- Coordinated effectively with a team of 4 members possessing skills in high performance computing.

Software Developer at Helloholo   **Nov 2020 – Jan 2021**

- Developed and implemented interactive AV design, and integrated VR technologies with corporate visions.
- Experimented with new technologies (Virtual Reality, Augmented Reality and Mixed Reality), and assisted in developing software compatible to Extended Reality devices.
- Introduced Oculus development for simulation and AR technology.

Threat and Incident Specialist at MSD   **Apr 2020 – Present**

- Monitored computer virus reports to determine when to update virus protection systems.
- Reviewed violations of computer security procedures and developed mitigation plans.
- Performed risk analyses to identify appropriate security countermeasures.
- Delved into malware analysis, researched and developed computer forensic tools.
- Analyzed malicious obfuscation methods, researched and developed several malicious samples.

PROJECTS

obfDetect   **Aug 2021 – Oct 2021**

Automatically detects obfuscated code and other state machines in binary samples

- IDA Scripting to perform heuristic calculations on function Abstract Syntax Trees (AST).
- Detects function anomalies and obfuscated assembly code based on heuristic complexities.

EDUCATION

Anglo-Chinese Junior College   **2017 – 2018**

- GCE A Levels (Further Mathematics, H2 Mathematics, H2 Physics).
- Expressed my passion in computer science by developing real-time computer vision models in my school's computing CCA.
- Created 3D models and textures, computer renders and shaders in several modeling/texturing applications.

Singapore Institute of Technology   **2019 – Present**

- Undergraduate in Information Security.
- Building onto my computing knowledge in the varying fields of computer science, such as Information Security and Interactive Simulation.
- Delved into the niche topics within computer science as part of Capture-The-Flag (CTF) teams both locally and overseas. Some of the niche topics that I have explored are the makings of malware and reverse engineering,