

Meng Xipeng

C601, TAIHUAYUAN, 40QU, BAOAN QU, SHENZHEN, GUANGDONG, CHINA 518000

+86 (0) 13537853751 # MENGXIPENG@GMAIL.COM #
MENGXIPENG1122.GITHUB.IO

Summary

Supportive and enthusiastic team player dedicated to streamlining processes and efficiently resolving project issues.

Software Engineer with over 20 years of experience. Excellent reputation for solving problems and improving customer satisfaction.

Skill Highlights

- | | |
|--------------|--------------------------------------|
| • C/C++ | • Assembly, ARM/Thumb, ARM64, X86/64 |
| • Python | • Typescript |
| • Typescript | • Linux |
| • Matlab | • Git |
| • English | |

Experience

Reverse Engineer - 09/2011 to current

Moore Chip, Shen Zhen, Guang Dong, China

- Use IDA/Ghidra to static analyze programs on Linux/Android.
- Use Frida to dynamic analyze programs on Linux/Android
- Use Python to write scripts to patch original programs to bypass secure IC, to port programs to run on our own boards, and to add our own encrypt algorithm.
- Port Android games without source code to our own boards by patching native libraries.
- Extract encrypted assets from Android games.
- Analyze hardware communication protocols in Linux games. And rewrote them in C/C++.
- Analyze disassembly of arm, arm64, x86 and x64 binaries.
- SW development experience in Assembly, C/C++, Python, Typescript for development of proof of concept code.
- Analyzing SW applications and protocols.
- Conducted analysis of dynamic and static factors, and reverse engineering operations.
- Experience/knowledge of data collection and analysis.
- Firmware development for SOCs, including Linux kernel and user space applications.

Algorithm Engineer - 07/2009 to 09/2011

Micro Pattern, Dong Guan, Guang Dong, China

- Used OpenCV Library to write and test computer vision algorithms.
- Wrote windows programs for data entry in C/C++
- Evaluated OCR algorithms with Matlab
- Expertise in C programming in a Unix-derivative environment highly desirable.
- Implements or modifies existing algorithms to analyze and preprocess images.
- Collaborates with other members of a project team to meet defined scientific and technical

goals/requirements.

- Perform algorithm documentations.
- Analyze new algorithm performance requirements to determine functional gaps against existing designs. Develop algorithm solutions to close the gaps accordingly.
- Perform image quality tuning and measurement.

Software Engineer - 07/2001 to 09/2009

Skyworth, Shen zhen, Guang Dong, China

- Reviewed project specifications and designed technology solutions that met or exceeded performance expectations.
- Designed and wrote firmwares on Set Top Boxes.
- Implemented multithreading real-time applications.
- Ported Linux kernel and U-boot on custom boards.
- Ported Board Support Packages for custom boards.

Education

Bachelor of Science: **Software Engineering** - 2001

Shi Yan University, Shi Yan, Hu Bei, China