Dylan "Haifisch" Laws

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Brief Profile

Dedicated and research-driven multi-platform developer with over a decade of self-taught programming experience. Passionate about crafting innovative solutions that seamlessly integrate with diverse systems. Proven track record of driving strategic improvements through continuous learning and adaptability.

Technical Knowledge

Languages
- Objective-C, C++, C
- Golang
- ARM, x86, x64 ASM
- JavaScript, Node.js
- Python, Perl, Lua
- Unix Shell Scripting
- HTML5, CSS

Development Platforms
- GNU/Linux or Unix-based OSs
- Headless server environments
- Apple macOS, iOS and watchOS
- Windows XP through Windows 11
- Nintendo DS, DSi, 3DS and Wii
- STMicroelectronics ARM Microcontrollers
- Atmel AVR Microcontrollers

Software Tools
- Xcode 5 - 7.x
- IDA Pro Disassembler
- Hopper Disassembler
- GNU (gcc, gdb, make, etc.)
- LLVM Suite (lldb, clang, etc.)
- Git or SVN Repositories
- Autodesk EAGLE
- Unity Engine, Unreal Engine
- Microsoft Visual Studio
- Windows Subsystem for Linux
- Nintendo SDK tools DS, 3DS and Wii

Electrical Engineering
- Through-hole soldering by hand
- SMD soldering (hot air or microsoldering)
- Hardware prototyping
- PCB design analysis
- PCB prototype production
- Waveform analysis with an oscilloscope
- Digital logic analysis
- EAGLE CAD
- Autodesk Fusion 360
- KiCAD

Work Experience

Guardian Firewall – Security Researcher, *September 2019 to July 2021*
Leading iOS security research to enhance application decryption for analysis. Led development of 'Grandmaster,' a Python-based semi-automated iOS firmware KBAG decryption tool, and 'Foreman,' a Node.js storage server managing encrypted KBAGs and decryption queues for connected users. Additionally, designed a custom Linux build with Golang services for a router prototype.

Blockchains LLC – iOS Developer, *October 2018 to February 2019*
As the primary iOS Developer, I collaborated closely with an Android counterpart to create distinct applications that adhered to the unique design principles of each platform. This collaborative effort ensured a seamless user experience while respecting the individual guidelines of iOS and Android. By orchestrating the development process and aligning design aesthetics, I played a pivotal role in delivering cohesive, platform optimized applications.

Sun Tzu Security LLC – Cofounder and Engineering Lead, *September 2016 to 2017*
Led development of a high-security messaging service using hardware-based key storage for real-time encryption on iOS and macOS clients. Co-founded during high school, we showcased innovative solutions in hackathons, including becoming a finalist in a Lattice Semiconductor event.

Pinnocio Inc. – Internship / Contracted Projects, *June 2014 to February 2015*
Engineered and maintained the iOS Pinoccio HQ application that integrates with the Pinoccio Scout over both Wi-Fi and Bluetooth Low Energy (BLE) so hardware can be controlled via iPhone or iPad. Assisted in building a Pinoccio Scout mesh network in downtown Reno.