# Tim Krach

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#### **SUMMARY**

Experienced Software Engineer with a strong background in cybersecurity, reverse engineering, and embedded systems. Proven ability to lead teams, manage projects, and develop innovative solutions. Fluent in business level Japanese and possess a Japanese Engineering Work Visa. Seeking opportunities in Japan to leverage my technical skills and cultural knowledge.

## **EXPERIENCE**

## **English Teacher**

#### AEON 英会話

May 2022 - April 2024, Tokyo, Japan

- Instructed adults and children English as a second language in a Japanese workplace.
- · Facilitated effective communication by engaging with coworkers in both English and Japanese.

#### **Cyber Defense Instructor**

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## August 2021 - May. 2022, Loyola Blakefield High School | Towson, MD

- Coached students to participate in multiple cybersecurity competitions focusing on OS defense and vulnerability management including the US Air Force's CyberPatriot National competition.
- Instructed students on how to locate and mitigate security vulnerabilities, and malware in various distributions of Linux, including Ubuntu, CentOS, and Debian.
- · Led a Linux+ crash course for students to be able to pass the CompTIA certification on Linux management.

## **Windows Software Engineer**

### **Windows Software Engineer**

June 2020 - August 2020, Vulnerability Research Labs | Columbia, MD

- · Worked closely with C++ and Python development on a low-level, Windows environment.
- Reverse engineered Windows libraries using IDAPro to improve software compatibility.
- · Collaborated in a fast paced team environment optimizing customer facing software in a large codebase using Git.
- Engaged with secure infrastructure in a Top Secret industry environment.

# **Embedded Developer**

## **Booz Allen Hamilton**

June 2019 - August 2019, Annapolis Junction, MD

- · Led a team of 3 to reverse engineer a network attached storage device to discover exploitable vulnerabilities in software and hardware.
- Participated in a reverse engineering class led by industry experts.
- · Formulated and carried out a vulnerability remediation plan to address the exploits found on the device.
- $\cdot \ \, \text{Worked extensively with Ghidra, Kali Linux, BurpSuite, Wireshark, logic analyzers, and various tools for vulnerability research.}$

## **Software Engineer**

## **Booz Allen Hamilton**

June 2018 - August 2018, Annapolis Junction, MD

- · Collaborated with a team of 4 engineers to create a mesh-network framework to be used on a custom-built hardware device to provide secure, robust, mesh-networks across long distances.
- · Developed framework in C from the ground up, involving raw-sockets, custom networking protocols, and virtualization.
- $\boldsymbol{\cdot}$  Built for use on a raspberry pi along with custom radio hardware components.
- $\cdot \ \text{Worked extensively with networking, hardware and software design, C programming, and LoRa}$

### **EDUCATION**

## **Bachelor of Science in Computer Science**

Minor in Minor in Japanese · University of Maryland College Park

## **SKILLS**

UNIX | Linux | Reverse Engineering | Embedded Dev | Software Dev | Vulnerability Assessment | Computer Security | Network Security | Networking | TCP/IP | C | Python | Java | Ruby | Ghidra | IDAPro | VMware | Docker | Japanese

**Eagle Scout** 

CompTIA Network+ Certification