Ræn Kararou

DevSecOps Engineer,
Systems Administrator

🌐 https://spicywolf.srht.site

@ ren@kararou.space

🔑 4096R/0714F8E6

Objective

Software and systems engineer quick to adapt in complex and mature environments seeking full-time employment offering complex challenges.

Presentations

📶 **Wireless Hacking 101**
SecureSet Academy 2019

🚩 **SSA Capture The Flag Tutorial**
SecureSet Academy 2018

Teaching

🖥 **Substitute for SysAdmin 201**
SecureSet Academy 2019

🐧 **Hunt Analysis on Linux**
root9B Teaching 2018

Education

Diploma in Cybersecurity
SecureSet Academy
Aug 2017 - Dec 2017
Relevant Courses:

- Systems Administration
- Network Administration

Educational Focus:

- Network Routing Protocols
- Firewall Administration
- Logs Analysis
- Packet Analysis

Awards

BETA Wolf Award
SecureSet Academy
December 2017

Academic Award for Leadership, Teamwork, and Mentorship

Work Experience

2022 – Present   **Contractor - DevSecOps Engineer**   **CALTech Networks, LLC**

CALTech Networks is a managed services provider and professional services company. CALTech offers software development, system administration, security monitoring, network monitoring, private cloud infrastructure, and more.

The primary role of this position is to complete work on customer projects that involve software development and server administration with a focus on automating and streamlining the development to deployment pipeline. This role also features a focus on security and monitoring thoughout the software development lifecycle.

Highlights of projects worked on include:

- Deep-diving into a customer's half-million line codebase to add additional functionality and API connectivity, in just a few months
- Reducing an estimated eighty hours of work to seven during rollout of a Windows feature across an entire customer network
- Assisting in rearchitecting and remapping a core internal site's network
- Setting up and configuring several internal services, including core network monitoring systems

2020 – 2021   **Incident Response Analyst**   **Flexential**

Flexential is a colocation center, MSP, cloud provider, and professional services company that serves several fortune 100 companies across three continents and more than 100 points of presense.

The Incident Response Analyst role includes many responsibilities, most important is to act as a first point of customer contact. Other responsibilities include acknowledging and fielding security, network, backup, and systems incidents.

Additional roles taken while at Flexential included:

- Taking an active role in organizing, reformatting, editing, and creating documentation, both technical and procedural
- Acting as a Linux-centric SME, including taking charge of highly complex cases in which hard to diagnose bugs were responsible for abnormal or unexplainable behaviour
- Heading up an employee safety initiative, maintaining close contact with several C-Level executives in order to help make the workplace a safer and more comfortable space for all employees

2018 – 2019   **Network Defense Operator**   **root9B**

root9B (acquired by Deloitte) was a managed security services provider serving fortune 100 companies and various high profile customers. In addition, root9B offered penetration testing, security auditing, digital forensics, and security software.

Network Defense Operators were required to create and manage tickets around security incidents, analyze log data, and communicate with customer security teams to coordinate incident response. This role was also responsible for weekly and special report preparation, as well as incident response data enrichment to create a comprehensive security snapshot for customers.

Several additional roles and tasks completed while at root9B included:

- Singlehandedly administrating a several hundred Terabyte multi-node Apache Hadoop cluster
- Developing and packaging a tool to securely scrape, index, and create actionable threat intelligence from DarkNet hacker forums
- Diagnosing, documenting, and remedying issues caused by a transparent firewall within the first week of the job
- Architecting, installing, and configuring a clustered Splunk SIEM for internal use capable of indexing an upwards of 100 gigabytes of data per day despite no prep time and several network level issues
- Assisting in architecting and configuring an ElasticStack-based SIEM capable of processing 300 gigabytes of log data per day with full TLS encryption for all data in transit

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Soft Skills

- 💬 Communication ●●●●○
- 👥 Teamwork ●●●●○
- ⚙️ Problem-solving ●●●●○
- ⚏ Adaptability ●●●●○
- 📄 Resourcefulness ●●●●○

Programming

- </> Rust ●●●●○
- </> C ●●●●○
- </> C++ ●●●○○
- </> Python ●●●○○
- </> C# ●●○○○

Systems

- 🐧 Linux ●●●●○
- ⊞ Windows ●●●○○
- 🍎 macOS ●●●○○
- >_ illumos ●●●●○
- >_ BSD ●●●●●

Build Systems

- ⚙️ GNU Make ●●●○○
- ⚙️ BSD Make ●●●○○
- ⚙️ Bazel ●●○○○
- ⚙️ ninja ●●○○○

Version Control

- ⎇ git ●●●●○
- ⎇ Mercurial ●●●○○
- ⎇ SVN ●●○○○

Documents

- 📄 LaTeX ●●●●○
- 📄 Microsoft Office ●●●○○
- 📄 Google Workspace ●●●●○
- 📄 LibreOffice ●●●○○
- 📄 groff ●●●○○

Projects

2025   **libspicy** ⚙️
A library of useful datastructures and algorithms in C and Rust, designed for linkage from C programs. Includes memory allocators, strings, and dynamic arrays.
Status: Development   **Language:** C/Rust

2025   **nbtpd** >_
Multi-threaded TFTP server developed as a part of a bespoke netbooting platform. Almost RFC1350 compliant, only lacking mail transfer mode.
Status: Release (1.0.0)   **Language:** C

2023   **rndfile** >_
A command-line tool that picks a random file from given directories. Capable of detecting, filtering by size, and resizing image files. Over 700 downloads in the last 90 days.
Status: Release (1.0.1)   **Language:** Rust

2022   **netswag** ⚙️
A python tool that grabs the swagger definition files for the NetSuite REST API using token-based authentication.
Status: Release (1.0.0)   **Language:** Python

2023   **k2spice** 📖
An attempt at recreating the illumos userland for Linux. Working implementations of echo, printf, pwd, true, false, hostname, and yes.
Status: Development   **Language:** Rust

2023   **mailf0rm** ✉️
A toy mail protocol designed to ensure user privacy and enable easy end-to-end encryption without using existing smtp infrastructure.
Status: Development   **Language:** Rust

2023   **SpicyDiskSystem** 💾
An eMMC 5.1 based cartridge storage system for use in desktop computers. Trying very hard to emulate the feel of having 3.5 inch diskettes.
Status: Development

2019 – 2023   **Kararou Computer Research Lab** 👥
A digital computer research lab that offered free resources to computer researchers.
Status: Deprecated

2019 – 2023   **KCRL Compute Cluster** ⌗
The private cloud that made up the core backbone of the Kararou Computer Research Lab. Powered by a highly modified and extended version of MNX's Triton Datacenter with fully enabled monitoring and security services.
Status: Discontinued

2016 – 2017   **Notta Cat** 🖥️
A Not-Cat Detector written in C using the Berkeley Vision library, Caffe. Trained on images of cats scraped from the internet. Had around 70% accuracy.
Status: Complete   **Language:** C

2015   **IRIS 1** 🚀
A CubeSat-compliant beeper satellite aimed to use standard off-the-shelf components and hand-built tools for less than $1000.
Status: Stalled