QUIN DARCY

✉ quinmdarcy@gmail.com | My Website | ⌂ Quin-Darcy | ☎ (916) 202-1315

Technical Projects

Network Protocol Fuzzer | *Rust*   May 2023
- Fuzzes protocol implementation by utilizing a genetic algorithm to evolve a corpus of message sequences, selecting for sequences which cause unexpected behavior in protocol target server.

RL Path Finder | *Javascript*   Dec 2021
- Uses epsilon-greedy and lower confidence bound sample average methods of reinforcement learning to find shortest path in lattice.

aes_crypt | *Rust*   April 2023
- A Rust implementation of the AES block cipher as specified by FIPS 197. Uses several caching components to optimize underlying operations. Has simple APIs for key generation and file encryption/decrytption.

Eigenvalues of $\mathfrak{s}_n(\mathbb{C})$ | *Python*   Sep 2021
- Generates .GIF of eigenvalues of the adjoint representation of Cartan subalgebra based on user specified parameters.

dll_injector | *Rust*   Aug 2023
- This program is a highly modular and reliable DLL injector written in Rust, capable of injecting a specified DLL into a given running Windows process. It features extensive logging to monitor and debug runtime behavior.

Recent Experience

Service Technician   Aug 2022 – Present
FUSE3 Solutions   *Sacramento, CA, USA*
- Enhanced client security through MFA migrations and daily email threat analysis using VirusTotal and DKIM checks. Managed Microsoft 365 account compromise incidents, implementing immediate security measures and thorough remediation. Set up new users with AV endpoint agents and VPNs, and used Sophos for AV, VPN, and firewall management, and Barracuda for email gateway management. Conducted policy testing on the Sophos firewall for network troubleshooting. Quickly learned client specific softwares to assist in troubleshooting while onsite and documentation to inform future issue resolution procedures.

Help Desk Technician   Sep 2021 – Aug 2022
Nelson & Kennard   *Sacramento, CA, USA*
- Account management in Active Directory, Windows Server 2016/2019, ConnectWise Manage, and VMWare. Email security processes with Barracuda. General networking in RDS environments.

Education

California State University, Sacramento   US
Master's in Mathematics.   *Aug. 2019 – May 2022*

California State University, Sacramento   US
Bachelor's in Mathematics. Focus: Pure   *Aug. 2017 – May 2019*
  * Awarded Pi Mu Epsilon Membership

Certifications

CompTIA Network+   US
N10-008   *Aug 2023*