EYAL KALDERON

SOFTWARE ENGINEER

SUMMARY

Passionate and innovative software engineer and founder of several popular open source projects. Highly goal driven and self-motivated. Excellent communicator and community mediator. Specializes in systems programming, high-performance backend Web services, and distributed systems.

CONTACT

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EDUCATION

George Mason University
B.S. Computer Science
Completed 52 credits (3 years)

SKILLS

PROFICIENCIES

Software Development
Systems Programming
Distributed Systems
Embedded Programming
Open Source Software

PROGRAMMING LANGUAGES

Rust
C
C++
Java
SQL
Bash
Python
HTML/CSS

TECHNOLOGIES

Git
Docker
Kubernetes
ArgoCD
Google Cloud Platform
Prometheus
Arduino

OPERATING SYSTEMS

Linux
Windows
NixOS

PROJECTS

Amethyst Engine (amethyst.rs)   Dec. 2015 to Jan. 2019
- Developed an open source general-purpose 3D game engine written in **Rust**.
- Prototyped core, wrote documentation, launched website, reviewed community contributions, moderated Gitter chat rooms.
- Amassed significant following on GitHub (6K+ stars) and attracted over 200 contributors.
- Stewardship of project now managed by 501(c)(3) non-profit organization.

tower-lsp   Aug. 2019 to Current
- Developed an open source framework implementing the Language Server Protocol (LSP) written in **Rust**.
- Implemented library, wrote documentation, reviewed community contributions.
- Currently relied upon by four (4) commonly used language servers (WebAssembly, SystemVerilog, Tremor, Clarity).

PushBuddy   Feb. 2016 to Feb. 2016
- Universal file syncing desktop client for multiple cloud services written in **Java**. Works with Dropbox, expandable to many others.
- Implemented the core directory tree syncing engine.
- Team-submission won 2nd place at VT Hacks III hackathon.

EMPLOYMENT

TenX   Singapore
Software Engineer   Feb. 2018 to Current
- Helped scale card business from about 100K users to over 250K+ registered users.
- Worked on card payments backend (ISO 8583), card shipment service, and card settlement processing service, written in **Rust**.
- Developed logout microservice in **Rust** to facilitate the migration of user session management to JSON Web Tokens (JWT).
- Built continuous delivery pipelines for deploying **Rust** and **TypeScript** software to **Kubernetes** using Concourse, Nix, and ArgoCD.
- Worked on in-house real-time monitoring system using Prometheus, Sentry, and Grafana.
- Participated in on-call rotation, responding promptly to instances of downtime or impacted service around the clock.
- Assisted and trained 8 colleagues on best practices of the Rust programming language.

Kajeet   McLean, VA
Engineering Intern   May 2016 to Aug. 2017
- Refactored the in-house packet filtering software, written in **C89** and based on the netfilter/iptables systems of the Linux kernel.
- Improved stability and uptime by fixing memory leaks and concurrency bugs, reduced resource consumption and risk of outages.
- Prepared high-quality wiki documentation in Atlassian Confluence software to facilitate smooth project hand-off.
- Assisted with various IT tasks alongside network administrator, troubleshooting user errors.

George Mason University   Fairfax, VA
IT Security Intern   Jan. 2016 to May 2016
- Identified suspicious or compromised systems present on the campus WAN. Monitored the network for threats and suspicious activity using Symantec Endpoint Security, HP ArcSight Logger, and FireEye. Reported known threats in the BMC Service Desk Express ticketing system.
- Efforts reduced daily workload for the existing IT security team.

Kajeet   McLean, VA
Engineering Intern   Jan. 2015 to July 2015
- Developed centralized network documentation database application with Microsoft Access and SQL.
- Reduced documentation overhead for network administrator compared to previous Excel spreadsheet solution.
- Compiled and benchmarked embedded network router software running on OpenWrt, assisting team of Kryptowire engineers.

AWARDS

Major League Hacking · Second Place Winner - VT Hacks III   Feb. 2016
Placed 2nd out of 54 teams in the third Virginia Tech Hackathon. Awarded for the creation and presentation of PushBuddy.

ACTIVITIES

Mason Linux Users Group · Member   Feb. 2016 to Feb. 2019
- Mason LUG is a vehicle for curious students to learn about Linux and free software in a social setting, create and contribute to free software projects, and advocate for the use of Linux and free software on campus.
- Attended weekly group meetings, contributed reference material for presentations, and helped onboard new members.
- Assisted novice students with the installation of various Linux flavors and provided on-site troubleshooting.

GMU Patriot Hackers · Member   Feb. 2016 to Feb. 2019
- Patriot Hackers is a student-run cybersecurity group that teaches students industry-grade skills and collaborates with Mason LUG.
- Attended weekly group meetings, coordinated activities with Mason LUG, helped construct capture-the-flag (CTF) environments for students.

Student-Run Computing and Technology · Member   Feb. 2016 to Feb. 2019
- Student-Run Computing and Technology (SRCT, pronounced "circuit") is a group which seeks to enhance student computing at GMU. It produces and maintains systems which provide useful services to the general Mason community, e.g. *whatsopen.gmu.edu*.
- Attended club meetings and interacted with members on group Slack.