Lihu Ben-Ezri-Ravin

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Code (professional): https://github.com/lbenezriravin • Code (personal): https://scm.yoloswag.lol/lihu

SKILLS

Programming Languages: Python, Bash, Rust, Kermit

Operating systems: CentOS/Rocky, Fedora, Ubuntu, Raspberry Pi OS, VyOS/EdgeOS, Embedded Linux, Cisco IOS

Software: git, Ansible, systemd, firewalld, udev, Wireshark/tcpdump, Terraform, Packer, Docker/Buildah/Podman, Buildroot, LaTeX

Networking: Wi-FI (802.11ac/ax), VLAN (802.1q), ARP, IP, ICMP, UDP, DHCP, TCP, TFTP, DNS, NTP, SSH

SaaS tools: AWS (EC2, ECS, ECR, S3, IAM, SNS, Cloudwatch, ACM, RDS), Jenkins, TeamCity, Artifactory

EXPERIENCE

Portal Instruments *Apr 2022 – Dec 2022*

Senior DevOps Engineer

- Converted the existing manually-configured VM-based CI to an OCI-compliant containerized system. Documented and automated the process using Terraform.
- Spearheaded company-wide security compliance efforts. Targeted specific immediate business requirements, using ISO 27001 and SOC 2 as reference.
- Collaborated with senior developers to establish code standards for Python scripts. Automated them and worked directly with junior developers and electrical/mechanical engineers to convert existing projects.

Starry Inc. *Feb 2017 – Mar 2022*

Principal Systems Software Engineer

- Wrote firmware in Rust for embedded Linux on Starry radios allowing for automatic self-configuration in the field.
- Shipped 8 distinct products across a 5 year tenure at Starry.

Manager, Systems Software Tooling

- Owned the firmware build infrastructure, a CI/CD pipeline using Jenkins and Kubernetes. Over 6 months, cut build time by 50%, from 4 hours down to 2.
- Maintained the nightly test automation infrastructure, scaling it with the ballooning number of new products, tests, and test harnesses.
- Supported automated provisioning, updates, security patches, and technical support for engineering testbeds and manufacturing systems.

Manager, Internet Firmware Validation

- Oversaw the hiring process, growing the team from 4 to 9 engineers over 10 months.
- Expanded test coverage while delivering on tight deadlines and communicating progress to C-suite.
- Built and shipped a test storage and reporting solution using MariaDB.

Senior Systems Integration and Validation Engineer

- Designed and wrote full-system test software for manufacturing, including controls for a variety of hardware components over RS232, USB, and ethernet.
- Mentored 8 Northeastern co-ops over 3 years, each of which took ownership of long-term, critical projects. Two went on to take full-time positions with Starry.
- Built and expanded an internal test network and testbed automation infrastructure to the manufacturing line overseas. Maintained 24/7 uptime over 7 time zones.

Systems Integration and Validation Engineer

- Set up automation from scratch for administrating and documenting state on test harnesses using Ansible.
- Migrated existing projects to Python 3.
- Implemented team code standards (formatting, pylint, mypy, documentation, etc.) and automated their enforcement in CI with Jenkins.

Junior Software Engineer, QA

- Wrote unit and integration tests for firmware on Starry radios.
- Built, maintained, and automated physical test harnesses.

EDUCATION

Swarthmore College

B.A. in Computer Science and Biology