

SIDHARTH SONI

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SKILLS

DevOps: Kubernetes, Docker, Concourse CI, Jenkins, GitHub Actions, Azure, AWS, Prometheus.

Linux: Linux Kernel Contribution, Systemd Scripts, Cron Jobs, Automation Scripts, Filesystem Internals.

Server Admin: NGINX Services, VPN Setup and Management, SSH-over-VPN, DNS Management.

Language: Go, JavaScript.

Database: Postgres, MongoDB, MSSQL, Firebase Realtime DB, Redis.

ACHIEVEMENTS

Linux Kernel Contributor: Contributed to the Linux Kernel by proposing a [Patch](#) adding support for home key in HP notebooks. The patch has been approved.

Developed Symmetric Ciphers: Created an AES compliant 128-bit symmetric Feistel block cipher after researching into cryptography studying cipher modes, algorithms, principles, standards. A paper is in draft.

Security Analysis and Reporting: Discovered and reported exploits in Oxford Dictionaries API.

Cryptography: Designed [a way](#) to do secure user authentication without storing passwords based on simple cryptographic primitives.

Project Management: Managed the Cosmic-OS Project from Jan to Dec 2017.

Over The Air Updates: Created a custom C Program to demonstrate independent software upgrades using shell scripts by checking upstream for version change.

EXPERIENCE

SITE RELIABILITY ENGINEER – 1 | ROPYUTA ROBOTICS | SEPTEMBER 2021

- Led the effort to migrate monitoring and alerting stack to openshift user workload monitoring stack
 - This led to a more robust monitoring setup
 - Alerts got access to cluster metrics
 - Exposed missed Openshift cluster alerts
- Developed a new hardware-in-loop (HWIL) stack based on Sysbox which helped reduced cost
 - Connected HWIL k8s cluster to the Office and Prituni network through WireGuard for seamless connectivity to HWIL devices
 - Created an operator to create, manage and onboard devices automatically into the rapyuta.io platform
 - Worked with testing and dev team to smoothly migrate to the new stack
- Reliability Improvements
 - Created a job to clean-up rapyuta.io development instances from staging when they aren't needed
 - Migrated certificate issuing and renewal to cert-manager

DEVOPS ENGINEER | DOLPHINCHAT | APRIL 2021 – SEPTEMBER 2021

- Migrated DNS to Cloudflare with zero downtime
- Setup SSH-over-VPN, Firewalls, access controls on servers and databases
- Recommended an architectural change to fix performance bottlenecks.
- Delivered session on Git to help familiarise the team with git and the development and deployment workflow

LINUX SERVER ADMINISTRATION | COSMIC-OS

- Setup and managed instances of Gitea, Jenkins and Gerrit.
- Setup WireGuard VPN, SSH-over-VPN, Firewall on the server.
- Setup RAID-0 and build cache to improve build performance.

PROJECTS

Fitant Snippets: A modern paste bin which supports E2E Encryption and VS Code editor as frontend; written in Angular and Golang – [GitHub](#) - [Website](#)

Nginx Auto Config: A utility to create NGINX virtual server configuration files using presets – [GitHub](#)

Oxford Dictionary Bot: A telegram bot to query the Oxford Dictionary API to get Definitions, Examples, etc. – [GitHub](#)

SEAT 256 CFB: A CLI program which implements my SeaTurtle cipher - designed to take advantage of concurrency – [GitHub](#)

EDUCATION

B.C.A.
Manipal University Jaipur 2021 8.28
I.S.C
M.C. Kejriwal Vidyapeeth 2018 71.5%
C.B.S.E.
Sudhir Memorial Institute 2016 6.4

OTHER

GitHub profile:
github.com/sid-sun

Personal Blogs:
medium.com/@realsidsun