Umang Parmar

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India

Professional Experience

Lyearn

Product Engineer III   Mar 2023 – Present
                                                                                                    Remote

As the Engineering Lead for the Platform, Authentication and Authorization module, responsible for managing a small team of developers, enhancing access control across product, improving developer productivity, increase platform performance and resiliency, reduce resource usage and costs.

- Reduced infrastructure costs by 15% by migrating from high cost SaaS products to self hosted solutions.
- Cut down release time by 90% by automating the production release process, and reducing scope of human error.
- Led the migration efforts to upgrade EOL libraries and infra components to improve security and performance.
- Designed and developed timeseries data models for user goals, activities and skills metrics, providing rich insights to users.
- Managing operational tasks to to maintain our SOC2 compliance.

Product Engineer II   Feb 2021 – Feb 2023
                                                                                                    Remote

- Designed and implemented a document-level access framework with Role Based Access(RBAC) and Attributes Based Access(ABAC) Control.
- Built advanced timezone aware date range query builder for MongoDB and Elasticsearch.
- Developed a code generation tool which scaffolds all the boilerplate code for new service / business entity. Reducing time to initial delivery for new feature by 80% and making sure that code adheres to standards.
- Added Jira integration in our product to sync issues for our OKR module.
- Designed backend systems and data models for various product requirements such as Skills Framework, Assignments, Team Meetings etc.
- Developed multi-tenant abstraction layers for our data stores - MongoDB, Redis, and Elasticsearch.
- Advocated for and implemented an on-call system, creating essential protocols and processes for effective incident management.
- Defined and documented standards for coding patterns, PR reviews, logging, caching, and data migration procedures.
- Supercharged observability of our services by introducing:
  - Tracing for understanding whole lifecycle of any given request.
  - Error Reporting to notify engineers when errors occur in our production services.
  - Cron Monitoring to ensure timely and predictable execution of our cron jobs.
  - pprof support in our services to debug performance bottlenecks with precision.

Juniper Networks

Software Engineer   Aug 2019 – Feb 2021
                                                                                                 Bangalore, India

- Worked on VLAN/VxLAN and L3 Routing protocols on Broadcom chipset based devices.
- Managed fleet of lab devices, network topologies and documentation for build and debug guides for our team's workflow and tools.

Software Engineering Intern   Jan 2019 – Jun 2019
                                                                                                 Bangalore, India

- Designed and built an automation tool with UI and CLI to monitor lab resources which helped team monitor their inventory usage and optimize usage patterns.

Debian   May 2018 – Aug 2018
Google Summer of Code Student Participant   Remote

- Worked with Debian Developers and Maintainers to package essential Android SDK tools required for Android App and Custom ROM development.

Skills

Languages
- Typescript, Go, Python, JavaScript, C

Tools and Technologies
- GraphQL, NodeJS, Kubernetes(k8s), Helm, Jenkins, Kafka, gRPC, Terraform, Docker, pprof, Amazon Web Services(AWS)

Databases
- MongoDB, Redis, Elasticsearch, PostgreSQL

Projects

redisdel - Delete Redis Keys
- Utility cli app written to delete multiple redis key patterns concurrently from the configured Redis server/sentinel.
- Technologies Used: Go
- Github Link: github.com/darkLord19/redisdel 🔗

CircleCI Plugin for Mattermost
- Developed a mattermost(Slack alternative for team communication) plugin in collaboration with other two people to perform CircleCI actions and get build notification right from your chat.
- Features provided by plugin,
    - Notifications for failed/successful builds for your subscribed projects,
    - Job approval notification for configured projects and functionality to approve job directly from the mattermost channel
    - Triggering pipeline for given project and branch or tag.
    - Add/remove/list environment variables for projects
    - Get details about pipelines/workflows, metrics of workflows and jobs for past 90 days in you organization.
    - Rerun/cancel workflows
- Technologies Used: Go
- GitHub Link: github.com/mattermost/mattermost-plugin-circleci 🔗

Education

B.Tech (Information and Communication Technology)   2015 – 2019
Dhirubhai Ambani Institute of Information and Communication Technology   Gandhinagar, India