Hari Prasad Kannan

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GitHub [github.com/harikannan512]

PERSONAL PROFILE

Inquisitive and passionate software engineer, currently working at WEX Inc with 2.5 years of experience working in enterprise software development. Passionate about open source software and contribute to open source projects in my spare time.

EXPERIENCE

WEX Inc   March 2021 – Present
Software Engineer   *London, United Kingdom*

- Took ownership and modernised an incomplete legacy .NET based internal tool for archiving documents. Designed and developed multi-client solution for the application to with client specific role based access using Okta OIDC
- Responsible for a greenfield project to provide a homogenised solution that combines different services provided by different internal teams and organisations for embossing payment cards and deployed it using Github Actions, Helm Charts, Argo CD, Hashicorp Vault in Kubernetes
- Developed a high throughput messaging facade using Kafka and Spring Cloud to deliver live updates for the mobile users of EV (Electric Vehicle) charging platform
- Proposed multiple solutions to remedy a critical performance flaw in the existing workflow that uses SQS that improved message delays from minutes to milliseconds
- Worked on development and delivery of integrating a major EV solution provider with the EV platform, through multiple stages of testing
- Engaged in discussions with third party OCPI solution providers involving design, development, and final delivery stages
- Streamlined the delivery of microservices stack by introducing telemetry and service discovery solutions using Consul Connect, Prometheus, Grafana and Alert Manager
- Took responsibility for EMEA pilot delivery, including designing and developing for various requirements involving different teams and internal organisations, demonstrating improvements in delivery time of 20%.
- Assumed ownership of an in-house framework for running batch jobs based on Cron Scheduler. Reduced scheduling costs in the EMEA delivery by completely replacing and improving upon the proprietary scheduler
- Implemented RESTful and SOAP APIs in a microservice architecture using Spring Boot, Docker and Kubernetes, along with adding new features to and maintaining Wildfly based monolithic core payments platform
- Designed and implemented OAuth2 workflow using Okta OIDC in core payments platform using custom claims and inline hooks

Secure Meters Ltd   July 2020 – February 2021
Graduate Electrical Engineer   *New Delhi, India*

- Researched electricity and business-related policies in South-East Asia. Handled the demands of different clients with the appropriate Meter technical specifications as per the International IEC Standards as required
- Consistently liaised with stakeholders in Thailand, Malaysia, Indonesia and Myanmar to keep up with changes in local electrical standards and follow the developments of RCEP 2021

Secure Meters Ltd   January 2020 – June 2020
Internship   *Udaipur, India*

- Led a team of 5 interns for an organisation wide effort to improve safety and engineering practices for the on-field installation team
- Suggested multiple improvements in functional and protective equipment inventory and made workflow improvements in equipment logistics to improve electrical installation and erection efficiency by 27%

TECHNICAL SKILLS

Languages: Java/J2EE, TypeScript, Python, HTML/CSS, SQL, Go, C#
Frameworks: Spring Boot, .NET, Angular, JUnit, Mockito, MongoDB, Kafka, Flutter
Developer Tools: Git, Docker, Kubernetes, Consul, Prometheus, Liquibase, Linux, Maven, Helm Charts

Education

Guru Gobind Singh Indraprastha University, New Delhi   Aug 2016 – Sep 2020
BTech Power Engineering   *8.2/10*

Open Source Contributions

containers/podman   June 2023
Golang, Git, Docker, make   *https://github.com/harikannan512/podman*

- Enhanced Podman's systemd generator, "quadlet", enabling the recursive parsing of user-defined systemd unit files. This empowers users to efficiently organize their unit files according to their specific requirements.

open-policy-agent/opa   January 2023
Golang, Git, Docker   *https://github.com/harikannan512/opa*

- Rectified a Windows-specific bug in the opa command-line tool, harmonizing its behavior with the consistent performance observed in UNIX binaries (Linux and MacOS)

buildpacks/pack   December 2022
Golang, Git, Docker   *https://github.com/harikannan512/pack*

- Added functionality to the "pack" command-line tool, enhancing it to display Extensions, particularly as part of Extension enhancement Phase-I