

# Hari Prasad Kannan

(+44)7400351022 | hari.kannan@outlook.com | [LinkedIn](#) [linkedin.com/in/hari-prasad-kannan] | [GitHub](#) [github.com/harikannan512]

## PERSONAL PROFILE

---

Inquisitive and passionate software engineer, currently working at Visa Inc with more than 3 years of experience working in enterprise software development and payments industry. Passionate about open source software and contribute to open source projects in my spare time.

## EXPERIENCE

---

### VISA Inc

*Software Engineer*

May 2024 – Present

*Reading, United Kingdom*

- Contributed to features on the modernized replacement of the Visa payments network based on ISO8583 messages between Acquirers and Issuers
- Work on production features for auxiliary backend services to enhance alerting alongwith identifying and cleaning up technical debt

### WEX Inc

*Software Engineer*

March 2021 – April 2024

*London, United Kingdom*

- Proposed a generalised solution to solve SSL connectivity issues with Kafka by leveraging InitContainers with a custom image to provide keystore and truststore files for Authentication for cross vertical adoption
- Took ownership and modernised an incomplete legacy .NET based internal tool for archiving documents. Designed and developed multi-client solution for the application with client-specific role based access using Okta OIDC
- Responsible for a greenfield project to provide a homogenised solution for embossing payment cards that combines different services provided by different internal teams and organisations and deployed it using Github Actions, Helm Charts, Argo CD, Hashicorp Vault in Kubernetes
- Worked on development and delivery of integrating a major EV solution provider with the EV platform, through multiple stages of testing
- 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

*Graduate Electrical Engineer*

July 2020 – February 2021

*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

*Internship*

January 2020 – June 2020

*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