

Harikaran K.

Software Engineer

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Profile

I am a software engineer with 6+ years of experience in software engineering specializing in designing, developing, and maintaining scalable, secure, and high-performance server applications, full-stack web applications and desktop (GUI) applications. My primary tech stack consists of Java and Node.js for server-side development and React.js for client-side development. I am highly proficient in Spring ecosystem, microservices architecture and cloud technologies such as AWS S3 and EC2.

I am adept in leading other software engineers and collaborating with cross-functional teams to deliver projects on time. I am very fluent in English and very comfortable in working with overseas clients.

Skills

- Java
- JavaScript
- SQL
- Ubuntu
- CI/CD
- Spring Boot
- Node.js
- MSSQL Server
- Python
- Travis CI
- JavaFX
- React
- PostgreSQL
- Git
- Jenkins
- Selenium
- Express
- H2
- Maven
- Github Actions
- Hibernate
- Ansible
- Spring Data JPA
- AWS EC2 & S3
- Thymeleaf
- Kubernetes
- JTE
- Docker

Experience

Backend Developer | Maltem Asia (Pvt) Ltd | 11/2024 – 03/2025

- Developed REST APIs using Spring Boot to convert the architecture of a trade analysis web app from server-side rendered to client-side rendered.
- Deployed production-ready docker containers in AWS cloud using Amazon EKS (Elastic Kubernetes Service).
- Automated deployments and maintenance activities of data pipelines and Airflow servers using Ansible.

Tech Skills: Java, Spring Boot, Hibernate, Github Actions, Ansible, Docker, Amazon EKS, AWS S3

Senior Software Engineer | CMS (Pvt) Ltd | 12/2023 – 09/2024

- Developed the backend for a church app, Apollos, which allows the members of various churches in the US to subscribe to the events and proceedings of their church through their smartphones using Spring Boot web framework. I also used PostgreSQL for the database and Spring Data JPA as ORM.
- Built a RESTful Admin webpage for Apollos using React.js so admins can access and verify Apollos data stores interactively without the need for a mobile phone.

- Developed ETL pipelines for Apollos, to pull information about church members and church events from several Church APIs and store them in a central PostgreSQL cluster used by the backend. These pipelines are written in Python and are automated through Apache Airflow.
- Developed action scripts to deploy the above pipelines using Docker and Heroku app containers using Github Actions.

Tech skills: Java, Spring Boot, React.js, Spring Data JPA, Python, PostgreSQL, Apache Airflow, Docker, Github Actions

Technical Lead | HSBC | 09/2021 – 12/2023

- Lead the development of SuperMario, an automation software to automate AS400 terminals and HSBC websites, which is currently deployed in most of the East-Asian branches of HSBC and has a total cost-saving impact of USD 1 million for the bank. This software is written in Java and uses Selenium to automate websites and JavaFX for GUI.
- Migrated several internal websites from PHP to Java Spring Boot. This resulted in significant performance improvements and allowed me to add several new features which otherwise would have been difficult to implement. These websites are server-side rendered and I used Thymeleaf as the templating engine.
- Developed HSBC Forms, a web app to design and develop interactive digital forms using React.js and Node.js.
- Improved the efficiency of PMs by creating and deploying a Project Tracking desktop application developed using React.js, Java, Spring Boot and Hibernate along with H2 database.

Tech Skills: Java, Spring Boot, React.js, Node.js, JavaFX, Selenium, Hibernate, Thymeleaf, PostgreSQL, H2

Senior Software Engineer | Zelora (Pvt) Ltd | 08/2019 – 09/2021

- Developed a high-performance server-based AGV control and management application using Python and MSSQL Server which is currently deployed in several of Micron's production floors in Singapore.
- Built custom networking pipelines using XML RPC interfaces for high-speed and efficient communication between the AGVs and the server.
- Improved the performance of the above application by 40% by optimizing the AGV path finding algorithm and rearchitecting the path-finding module to utilize Python's multiprocessing module thus taking advantage of multiple CPU cores.
- Automated CI/CD actions using Travis CI.
- Developed the Android app, OoraarApp, a facebook-like social media app to connect the communities together, using Java and Android Studio. Backend was developed using Node.js.
- Developed Reporter, a web app that analyzes the AGVs' tasks execution efficiency and produces reports which can be accessed online by stakeholders. This app is developed using React.js and Node.js.
- Developed FleetManager, a desktop application to visualize the AGVs in realtime and check their status using Qt and C++.

Tech Skills: Python, MSSQL Server, Java, Android Studio, React.js, Node.js, Travis CI, Git

Frontend Engineer | Creative Hub (Pvt) Ltd | 01/2019 – 08/2019

- Developed commercial websites for clients using React.js.
- Implemented REST APIs and payment gateways for e-commerce websites .

Tech Skills: JavaScript, React.js, HTML5, CCS3

Education

Bachelor of Science in Information Technology | BCS, The Chartered Institute for IT | UK | 09/2023

Bachelor of Science in Chemical Engineering | University of Moratuwa | Sri Lanka | 09/2017

References

Available on request