

SUMMARY

Girish is a software engineer and has considerable experience with enterprise software development, testing and quality assurance. He specializes in using open source tools and frameworks.

SKILLS

- Programming languages: JavaScript/ES6, Java 8, Go
- Front-end tools: Angular.js, React.js, HTML 5, CSS
- Back-end development frameworks: Node.js, Express.js, Spring Boot
- CI/CD tools: Docker, GitHub CI, Jenkins
- Cloud software: Linode, Heroku, AWS
- Integrated development environment (IDE): WebStorm, IntelliJ Idea, GoLand
- Operating systems: GNU/Linux - Debian and Ubuntu, Mac OS X

EXPERIENCE

Independent Software Consultant, Self Employed

August 2019 - till date

- Worked on building integration and plugins for Mattermost (an open source alternative to Slack) teams communication software:
 - Developed OpenProject integration for Mattermost teams software:
 - * Project sponsored by OpenProject Foundation (OPF), Berlin
 - * Created a Mattermost plugin using Go programming language
 - Project repository URLs:
 - * <https://github.com/girish17/op-mattermost>
 - * <https://github.com/girish17/op-mattermost-plugin>
- Created software modules for developer documentation and wiki for open source projects
- Coached students in IT/programming and mathematics for computer science through one-on-one online live classes using open source software like Jitsi, Xournal and GNU/Linux.
- Programming languages and tools used: JavaScript/ES6, Go, Node.js, Python, REST API, Bash, GNU/Linux, Docker

Software Developer, 42Hertz (later acquired by Cisco)

January 2019 to July 2019

- Used asynchronous functions and callbacks in C++ 17 to prototype Buttons and Cards feature for Cisco WebEx teams app for desktop
- Fixed bugs and provided solutions to development environment setup issues
- Created user stories and estimated completion time using Jira
- Developed RESTful microservices to support CRUD operations using Spring Boot and created integration tests
- Programming languages and tools used: Spring Boot, JavaScript, Java 8, Mac OS X, IntelliJ Idea, Postman, Jenkins

Project Engineer, Indian Institute of Astrophysics December 2017 to December 2018

Worked as a member of the India Thirty Meter Telescope (TMT) software work package team coordinating the test and integration of the software delivered by the vendor and carried out quality checks.

- Used Protobuf models to port Java/Scala objects to C/C++ for the Common Software (CSW) module
- Used IntelliJ IDE with Java 8 and Scala on GNU/Linux platform to test and debug code for the observatory software
- Worked with automation of test suite using Bash shell script on GNU/Linux (Ubuntu)
- Created trade-study document for capturing user interface tool options for front-end JavaScript libraries such as Angular.js, React.js and Vue.js
- Used Precision Time Protocol (PTP) to work on a case study for time synchronisation between devices in an observatory
- Software tools and Programming languages used: Bash, GNU/Linux (Ubuntu), Java 8, Scala, C/C++, Git, Jira, Confluence

Teaching Assistant, Indian Institute of Science August 2017 to December 2017

- Teaching assistance, evaluation and course administration for Algorithms and Programming course to BS students
- Created scripts for result notification to students via email for consolidated scores using Google APIs
- Software/tools used: C, GNU/Linux (Fedora), Vim, GNU Debugger (GDB), Google API

Software Engineer, Bharat Electronics Limited November 2012 to November 2016

- Created Software Requirement Description (SRD) for capturing functional requirements of a software subsystem. Used flow charts to depict operational scenarios and outline data dependencies between subsystems
- Created database schema and tables using Oracle 10g relational database
- Used JavaScript and JQuery for rendering data from services in clients through AJAX requests
- Provided analytics to visualise information by customising JQPlot: JQuery UI plugin for bar and line graph representation
- Developed RESTful web services for create, read, update and delete (CRUD) operations using Spring MVC
- Used Hibernate Object Relational Mapping (ORM) and Java Persistence API (JPA) for Data Manipulation Language (DML) operations
- Developed reusable JavaScript modules using Asynchronous Module Definition (AMD) and loaded them using Require JS for improved webpage performance and code reuse
- Used Underscore JS framework for developing reusable HTML templates that could be rendered on fly and avoided typo errors.
- Software/tools used: JavaScript, JQuery, Spring MVC, Hibernate ORM, Apache Maven, JBoss AS, Microsoft Windows 7, Eclipse IDE, Microsoft Visio

EDUCATION

Bachelor of Engineering in Computer Science
PES Institute of Technology, Bangalore (now PES University), 2008 - 2012
Secured First Class with Distinction