**Girish M**
girishm@posteo.net ☎95381 31424 https://girishm.info

**SUMMARY**

Girish is a software engineer and an open source software contributor. He has diverse experience in software development, testing, quality assurance and coaching.

**SKILLS**

- Programming languages: JavaScript, Java, Go
- Bash shell scripting
- Back-end development using Node.js, Express.js
- Continuous Integration and Continuous Delivery (CI/CD): Docker, Git, Jenkins
- GNU/Linux - Debian, Ubuntu, Guix

**EXPERIENCE**

*Independent Software Consultant, Self Employed* August 2019 - till date

- Worked on building integration and plugins for Mattermost
  - OpenProject integration for Mattermost: https://github.com/girish17/op-mattermost - Sponsored by OpenProject Foundation (OPF), Berlin
  - OpenProject plugin for Mattermost: https://github.com/girish17/op-mattermost-plugin
- Coached students in IT/programming and mathematics for computer science through one-on-one online live classes using 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 for the new features
- Developed integration tests for a user story
- Wrote RESTful microservices to support CRUD operations
- 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++
  - https://github.com/tmtsoftware/csw/pull/33
- Used IntelliJ IDE with Java 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 to generate test reports
- Created trade-study document for capturing user interface tool options using Confluence
- Used Precision Time Protocol (PTP) to work on a case study for time sychronisation between devices
- Software tools and Programming languages used: Bash, GNU/Linux (Ubuntu), Java, 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 a script for result notification to students via email for consolidated scores using Google APIs
- Software/tools used: C, GNU/Linux (Fedora), Vim, GNU Debugger, Google API

*Software Engineer, Bharat Electronics Limited* November 2012 to November 2016

- Created SRD (Software Requirement Description) 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 designed tables using Oracle 10g
- Used JavaScript and JQuery for rendering data from services in clients through AJAX requests
- Provided analytics to visualise information by customising JQPlot plugin for bar and line graph representation
- Debugged client side UI code using Firebug extension of Mozilla Firefox
- Developed RESTful web services for CRUD (create, read, update and delete) operations using Spring MVC
- Used Hibernate ORM (Object Relational Mapping) and JPA (Java Persistence API) for DML (Data Manipulation Language) operations
- Unit tested developed module using JUnit
- Developed reusable JavaScript modules using AMD (Asynchronous Module Definition) and load using Require JS for improved webpage performance and code maintenance
- 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

**RECOGNITION**

November 2015 ***Software Quality Award given by Bharat Electronics Limited***