

**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
- Continuous Integration and Continuous Delivery (CI/CD) tools: Docker, GitHub CI, Jenkins
- 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