Girish M
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SUMMARY

Girish is a programmer and Free/Libre Open Source (FLOSS) software contributor. He has several years of experience in software development.

SKILLS

- Programming languages: Typescript, JavaScript/ES6, C, Go
- Architecture: REST, SAAS
- Back-end development libraries: Node.js, Express.js
- Continuous Integration and Continuous Delivery (CI/CD): Docker, Git, Jenkins
- Operating System: GNU/Linux - Debian, Ubuntu, Guix
- Other skills: OpenProject, Element/Matrix, Mattermost, Emacs, Vim

EXPERIENCE

Independent Software Consultant, Self Employed August 2019 -

- Developed and supported integration for OpenProject to support new functionalities with Element/Matrix for their project management software
  - `https://github.com/opf/matrix-hookshot`
- Worked as a developer and maintainer for building Mattermost integration and plugins:
  - OpenProject integration for Mattermost: `https://github.com/girish17/op-mattermost` - Sponsored by OpenProject Foundation (OPF), Berlin
  - Mattermost plugin: `https://github.com/girish17/op-mm-plugin`
- Deployed enterprise software integrations on Akamai Linode cloud running on Debian
- 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: Typescript,JavaScript/ES6, Node.js, REST API, C/C++, Bash, GNU/Linux (Debian), Docker, Emacs Org

Software Developer, 42Hertz (later acquired by Cisco) January 2019 to July 2019

- Developed 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 and product owner of the 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.

- Created trade-study document for capturing user interface tool options using Confluence
- Used Protobuf models to port Java/Scala objects to C/C++
- 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
- Used precision time protocol (PTP) to work on a case study for time sychronization between devices running with Linux kernel
- Software tools and Programming languages used: Bash, GNU/Linux (Ubuntu), Java, Scala, Akka, 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 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 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 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
- Unit tested developed module using JUnit
- Developed reusable JavaScript modules using asynchronous module definition (AMD) 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