Girish M

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SUMMARY

Girish is a software engineer with more than twelve years experience in software development using industry standard frameworks.

SKILLS

- Programming languages familiar with: JavaScript/ES6, Java, Go
- CI/CD: Docker, Azure VM, Jenkins, Git
- AI/ML: Azure ML, Azure Quantum Elements
- Back-end development: Node.js, Spring Boot
- Operating Systems: GNU/Linux - Debian, Ubuntu, Guix

EXPERIENCE

Independent Software Consultant   August 2019 -

- Deploying AI/ML models such as Microsoft's MatterGen and MatterSim on Azure ML to enable Matter Alchemy (https://matteralchemy.ai) for industries to accelerate material research and innovation
  - Developed a website to provide information for the product, signup and newsletter
  - Created context and component diagrams for the software architecture
- Developing integration for OpenProject GmbH to support new functionalities with Element/Matrix for OpenProject project management software
- Worked on building integration and plugins for Mattermost
  - OpenProject integration for Mattermost - https://github.com/girish17/op-mattermost : developed using JavaScript/ES6
  - OpenProject plugin for Mattermost - https://github.com/girish17/op-mattermost-plugin : developed using Go
  - BlackJack game for Mattermost - https://github.com/girish17/mattermost-blackjack : developed using Go
- Deployed integrations on Azure VM cloud and Akamai Linode
- Programming languages and tools used: JavaScript/ES6, Go, Node.js, REST API, Bash, GNU/Linux, Docker, Azure, Linode

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
- Developed integration tests for a user story
- Developed RESTful microservices to support CRUD operations
- Programming languages and tools used: C++, 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++
- 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), 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 Software Requirement Description (SRD) for capturing functional requirements of a software subsystem
- 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 JQuery plugin
- 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
- Developed reusable JavaScript modules using Asynchronous Module Definition (AMD) and load using Require JS for improved webpage performance and code maintenance
- 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