



**BOJJA VIGNESWAR RAO**  
**Java/Golang Programmer**

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## Summary

- 4+ years of design and development experience, the coding expertise of **Java/Java EE**.
- 3+ years of solid development experience, the coding expertise in **Golang**.
- Contributed greatly to increases in code quality and productivity through leadership and guidance in Test Driven Development (TDD), Refactoring, Pair Programming (Extreme Programming/XP) and Agile Estimation.
- Participated in decision-making areas beyond programming such as product design and development, hiring.
- Researched, evaluated, and selected frameworks and tools for specific project technology stacks.
- Hands-on design, development and integration experience with build APIs using RESTful, Microservices.
- Received open source developer **individual code signing** certificate from **CERTUM PCC** – Certification Authority for open-source projects.

## Skills

- Methodologies : Scrum, Agile, Test Driven Development.
- Architectures : RESTful, Microservices, Web API.
- Concepts : OOPS, Multithreading, Concurrency, Cryptography, Design patterns.
- Languages : Java, Go (Golang), SQL.
- Technologies : Java SE 11, Java EE 7, WebSocket, Json, JWS.
- Frameworks : Beego, Gin, Testify.
- Databases : MySQL, PostgreSQL, Amazon DynamoDB.
- Tools : Git, SVN, Docker, OpenAPI (Swagger), CI/CD (Jenkins, Travis CI, CircleCI).
- Software's : Eclipse, NetBeans, IntelliJ IDEA, GoLand, Virtualbox, VMware Workstation.
- Operating Systems : Windows, Linux, Mac.

## Experience

- Designed and implemented open source **VirusTotal public API client** in **Java, Golang**.
- Designed and implemented a distributed and scalability **Message server, Multi Antivirus** in **Golang**.

### **VirusTotal** (a subsidiary of **Google** | [VirusTotal.com](http://VirusTotal.com))

**(Open Source)**

**Description:** VirusTotal, a subsidiary of **Google**, is a free online service that analyses files and URLs, enabling the identification of viruses, worms, Trojans and other kinds of malicious content detected by antivirus engines and website scanners.

The VirusTotal API lets you upload and scan files, submit and scan URLs, access finished scan reports and make automatic comments on URLs and files without the need of using the HTML website interface.

- Designed and implemented open source **VirusTotal Public API client** in **Java 8, Golang**.
- Designed by keeping performance in mind followed by **SOLID** principles.
- Documented API, Provided Examples for API use.

### **Infosys (Apple Inc)**

*Specialist Programmer | API Team*

Hyderabad, IN  
JUN. 2018 – Present

- Designed and developed RESTful API Microservices using Java 8 followed by Saga design pattern.
- Developed App to App Authentication (A3) solution for an application to validate the identity of another application, validate the identity of the user of another application that is communicating with it and Minimal communication overheads between the applications for identity verification, to prevent replay attacks even within a short time period for certain application scenarios.
- Worked on POCs for opensource customizations and integrations.
- Written custom Gradle plugin for generating java docs with UML Diagrams.
- Written Test cases using JUnit with Mockito and Powermock.

### **coMakeIT (Thermeon)**

*Software Engineer | Backend Team*

Hyderabad, IN  
OCT. 2017 – JUN. 2018

**Description:** Thermeon Provides Car Rental and Reservation Solutions.

**CARS+** is a complete integrated software solution built with configurability at its core; honed to the specialized tasks of reserving, up-selling and renting vehicles for maximum efficiency and profitability.

CARS+ provides to operate business from reservations to reporting; enabling link business directly to customers, partners and brokers.

- Designed and developed **RESTful API Microservices** using Beego, Gin, OpenApi (Swagger) in **Golang**.
- Written Cryptographic functions for Authentication and Authorization services in Golang.
- Designed and Developed session management in Golang.
- Developed an Application to Collect **System Metrics** in Golang.
- Written Docker files, built **Docker** images and **deployed microservices**.
- Worked with **Test Driven Development(TDD)** using testify, assert.
- Done R&D proposed Paypal and Neteller as Payment Gateways.
- Done R&D proposed Gin framework for HTTP, Routing and logrus for logging.
- Helped team members given guidelines in Design and Development, Performed **Code reviews**.

### **Ivy Comptech** (a subsidiary of **GVC Holdings PLC**)

Software Engineer | Backend Team

Hyderabad, IN  
MAY. 2016 – OCT. 2017

**Description:** Develop online, real-time products for global companies operating in fast-paced and dynamic industries, such as bwin, partypoker and Foxy Bingo.

- Upgraded services, application servers; deployed WAR, JAR files and troubleshoot performance issues.
- Reduced server load by 36%; rewriting services using executor service in Java.
- Designed and implemented the Business logic of the project requirement to develop action classes, Value Object classes and DAO classes using, Core Java, JDBC and cryptographic functions using JCA.
- Designed and implemented a distributed **Message server** to handle 200K connections using WebSockets, Cryptography, Json, JWS, Gorilla, go-jwx, MYSQL in **Golang** followed by **SOLID** principles.
- Implemented Digital Signatures, Hashing, Encryption, Decryption Cryptographic functions in Golang.
- Helped team members in Design and Develop user roles and access privileges.

### **Genvo Systems**

Software Engineer | Backend Team

Hyderabad, IN  
DEC. 2013 – MAY. 2016

- Developed **IRIS** a lightweight case management tool for social service organizations to plan, seek and monitor services to their clients using Java EE 7, Servlets, JPA, JCA, Tomcat, MySQL in Java followed by **SOLID** principles.
- Implemented the Business logic of the project requirement to develop action classes, Value Object classes and DAO classes using Core Java, Servlets and cryptographic functions using JCA.

### **Mav (Multi-Antivirus)**

**(Personal Project)**

**Description:** Mav (Multi-Antivirus) is custom built multi antivirus and antimalware scanner that analyses files, enabling the identification of viruses, worms, Trojans and other kinds of malicious content detected by 18 antivirus engines.

- Built a distributed multi-antivirus using Json, Cryptography, MySQL, ExifTool, VirtualBox in **Golang** followed by **SOLID** principles.
- Customizable to work with more engines. And Not only tells which antivirus solution detected submitted file but also gives the **exact detection label** returned by each engine (e.g. **I-Worm.Allapple.gen**). and Detects **false positives**, i.e. Innocuous resources detected as malicious by one or more scanners.
- Client API offered in Java 8, Go; useful to upload and scan file, access finished **scan reports** without need of HTML website interface.

### **Honors & Awards**

- **CERTUM PCC – Certification Authority** Open source developer individual code signing certificate. FEB 2017

### **Education**

- B. Tech-Information Technology, Sarada Institute of Technology & Science affiliated to JNTU Hyderabad, Khammam, Telangana in 2013.