



BOJJA VIGNESWAR RAO
Java/Go Programmer

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Summary

- 4+ years of design and development experience, the coding expertise of Java/Java EE.
- 2+ years of solid development experience, the coding expertise in **Go**.
- Designed and implemented **open source VirusTotal public API client** in Java, Go.
- Designed and implemented a distributed and scalability **Real Time Message server** in **Go**.
- Designed and implemented a distributed **multi antivirus** engine in **Go**.
- Received **open source developer individual code signing certificate** from **CERTUM PCC – Certification Authority** for open-source projects.

Skills

- Architectures : RESTful, Microservices, Web API.
- Concepts : OOPS, Multithreading, Cryptography, Design patterns.
- Languages : Java 8, Go 1.9 (Golang/Google Go Language Programming).
- Technologies : Java SE 8, Java EE 7, WebSockets, Json, JWS.
- Java SE & EE : JVM, Collections, Generics, JDBC, Exceptions, Serialization, JNDI, Servlets, JCA.
- Java Frameworks : Spring, Hibernate.
- Go Frameworks : Beego, Testify.
- NoSQL Database : Amazon DynamoDB.
- Application Servers : Apache Tomcat, Wildfly, Caddy.
- Tools : Git, SVN, OpenAPI (Swagger), Dep, Maven.
- Software's : Eclipse, NetBeans, IntelliJ Idea, Goland, Virtualbox, VMware Workstation.
- Operating Systems : Windows, Linux, Mac.

Experience

VirusTotal (a subsidiary of **Google** | VirusTotal.com)

(Open Source)

Description: VirusTotal, a subsidiary of **Google**, is a free online service that analyzes 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** using cryptography, Json in **Java, Go**.
- Designed by keeping performance in mind and implemented in **Java 8, Go** followed by **SOLID** principles.
- Documented API with a clear description, Provided Examples for API uses, Optimized for maximum performance with minimum API.

coMakeIT (Thermeon)

Software Engineer | Backend Team

Hyderabad, TS, IN
OCT. 2017 – Present

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 Rental Agreement Search, Configuration API, Estimates API, Vehicle Search API **Microservices** using **OpenApi (Swagger), Beego** in **Golang**.
- Designed and developed Authentication and Authorization services using Cryptography in **Golang**.
- Developed an Application to Collect System Metrics in **Golang**.

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

Software Engineer | Backend Team

Hyderabad, TS, 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.
- Sped up common tasks by over 30x after optimizing runtime in Java.
- Reduced server load by 36%; rewriting services using executor service in Java.
- Reduced garbage collection time; rewriting services using reference types in Java.
- Implemented **scaled thread pool** using executor service to send **parallel** emails using Java Mail.
- Integrated Instamojo **Payment Gateway** in Payment System.
- 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.
- Written Linux scripts for processing logs; Configured **Sonarqube 5.3** to work with Java 8 for code coverage.
- Designed and implemented a distributed **Real Time Message server** to handle **200K** connections using WebSockets, Cryptography, Json, JWS, Gorilla, go-jwx, MYSQL in **Go** followed by **SOLID** principles.
- Configured Message Server with **SSL/TSL** Certificates; Authentication implemented with **token mechanism**.
- Implemented Cryptographic functions for **Digital Signatures, Hashing, Encryption, Decryption** in Go.
- Helped team members in **Design** and **Develop** user **roles** and **access privileges**.

Genvo Systems

Software Engineer | Backend Team

Hyderabad, TS, 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 analyzes 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 Go 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.