



BOJJA VIGNESWAR RAO
Java/Go Programmer

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SUMMARY

- ✓ 3+ years of development experience, the coding expertise of Java/Java EE software development.
- ✓ 1+ years of solid development experience, the coding expertise in **Go**.
- ✓ **Open source** applications design and development experience in **Java, Go**.
- ✓ Designed and developed **open source VirusTotal public API client** in Java.
- ✓ Developed a **Message server** in **Go** for handle **200K** connections.
- ✓ Designed and developed **multi antivirus** engine in **Go**.
- ✓ Received **open source developer individual code signing certificate** from **CERTUM PCC – Certification Authority**.
- ✓ In development of **ACME** protocol for issue free **SSL** certificates.

SKILLS

- ✓ Technologies : Java SE 8, Java EE 7, Cryptography, Blockchain, WebSockets, Virtualization, Network programming, Json, JWS, JWK.
- ✓ Java SE : JVM, Class loaders, Collections, Generics, Exceptions, Serialization.
- ✓ Java EE : JNDI, JMS, JDBC, Servlets, JSP, JCA.
- ✓ Concepts : OOPS, Multithreading, Design patterns.
- ✓ Languages : Java 8, Go 1.7, JavaScript.
- ✓ Version Control System : Git, SVN.
- ✓ Application Servers : Apache Tomcat, Wildfly, Caddy.
- ✓ Build Tools : Maven 3, Gradle.
- ✓ Software's : Toad, Virtualbox, VMware Workstation.
- ✓ Operating Systems : Windows, Linux, Mac.

OPEN SOURCE CONTRIBUTIONS

Title : VirusTotal Public API Client in Java
Client : VirusTotal.com (a subsidiary of **Google**)
Live URL : vighnesh.me/virustotal

Technical Environment

Languages : Java 8.
Technologies : Java Networking, Gson.
Build Tools : Maven 3.

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.

Accomplishments:

- ✓ Designed, Developed and implemented open source VirusTotal public API client in Java.
- ✓ Documented API with a clear description.
- ✓ Provided Examples for API uses.
- ✓ Optimized for maximum performance with minimum API.
- ✓ Total functionality Developed with only Java 8, without using any third-party HTTP clients.
- ✓ Designed and developed by well-known design followed by **OCP** principle.

EXPERIENCE

- ✓ Currently working with **Ivy Comptech** as **Software Engineer – I** May 2016 to Present.
- ✓ Previously worked with **Genvo Systems India Pvt Ltd** as **Software Engineer** Dec 2013 to Feb 2016.

PROJECTS Ivy Comptech (a subsidiary of GVC Holdings PLC)

1. Online gaming

Role : Java Programmer
Duration : May 2016 to Present

Technical Environment

Languages : Java 7,8, Go.
Technologies : Java EE 7, Websockets.
Frameworks : Springframework.
Web Container : Apache Tomcat 9.
Build Tools : Gradle.

Description: Focuses on integrity, speed, reliability and scalability, offer complete services in Game Design, Transaction Processing, Workflow Management, Analytics, Business Intelligence, Enterprise tools and Affiliate support systems.
These services will provide regulatory info for all products like a casino, poker, bingo gammon etc.

Accomplishments:

- ✓ Upgraded services and application servers, deployed **WAR, JAR** and **EAR** files and troubleshoot performance issues using the logs.
- ✓ Developed **thread pool** for send notification emails in **parallel** to suspended users.
- ✓ Worked with **Appdynamics** for monitoring alerts when services down.
- ✓ Developed and implemented the Business logic of the project requirement to develop action classes, Value Object classes and DAO (Data Access Object) classes using, **Core Java**.
- ✓ Written Linux scripts for monitoring and processing logs.
- ✓ Involved in making springframework configuration.
- ✓ Configured **Sonarqube 5.3** to work with Java 8 for code coverage (**no official Java 8 support**).

2. Message Server

Role : Go Programmer
Duration : Jan 2017 to Present

Technical Environment

Languages : Go.
Technologies : Websockets, Cryptography, Json, JWS, JWK.
Frameworks : Gorilla, go-jwx.
Database : MYSQL.

Description: Message Server is designed and developed for pushing messages and notifications to users for remind KYC verification status, alerting about account balances and service requests updates as per regulations of jurisdictions.

Accomplishments:

- ✓ Application security handled with **token mechanism**.
- ✓ Data transmission handled securely with **JWS** and **JWK**.
- ✓ Developed and implemented the Business logic of the project requirement to develop action types, **VO** (Value Object) types and **DAO** (Data Access Object) types in **Go**.

PROJECTS Genvo Systems India Pvt Ltd.

1. IRIS

Client : PCCI
Role : Java Developer

Duration : Jan 2014 to Feb 2016

Technical Environment

Languages : Java 7, JavaScript, HTML.
Technologies : Java EE 7, Servlets 3.1, JSP, JSTL, Java Mail 1.5, JPA 2.1, JCA.
Web Container : Apache Tomcat 7.
Frameworks : Hibernate, Log4j2.
Database : MySQL.

Description: Iris is a lightweight case management tool for social service organizations. It has a browser-based UI that connects to a modular, distributed server environment. In addition, it is designed to help PCCI to plan, seek and monitor services to their clients.

Accomplishments:

- ✓ Developed and implemented Encrypt and Decrypt function classes using JCA (Java Cryptographic Architecture).
- ✓ Developed and implemented the Business logic of the project requirement to develop action classes, Value Object classes and DAO (Data Access Object) classes using Core Java, Servlets.
- ✓ Developed and implemented E-mail functionality using Java Mail 1.5.
- ✓ Developed and implemented the **Data Validation** functions in Server using **Core Java, Servlets**.
- ✓ Helped team members to **Design and Develop** user **roles** and **access privileges**.

PERSONAL PROJECTS

Title : **Mav (Multi-Antivirus)**

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

Technical Environment

Languages : Go, Java (API), HTML, JavaScript, CSS.
Technologies : Go networking, Websockets, Json, gdbc, Cryptography.
Databases : MySQL.
File characterization Tools : exiftool (It analyses files give Meta information of files).
Virtualization : Virtualbox.

Features

- ✓ **Customize** for add or remove more engines.
- ✓ This may be used as a means to detect **false positives**, i.e. Innocuous resources detected as malicious by one or more scanners.
- ✓ Mav not only tells you whether a given antivirus solution detected submitted a file but also displays the **exact detection label** returned by each engine (e.g. **I-Worm.Allapple.gen**).
- ✓ **API** lets you upload and scan file access finished **scan reports** without the need of using the HTML website interface.
- ✓ Built-in **SSL/TLS with 8192-bit** encryption using **ACME protocol**.
- ✓ All engines **optimized** for **ultra-fast scanning**.

Accomplishments:

- ✓ Total functionality developed with only **Go 1.7**, without using third-party libraries.
- ✓ Designed and implemented by well-known design followed by **OCP** principle.

CERTIFICATIONS

- ✓ Open source developer individual code signing certificate from **CERTUM PCC – Certification Authority**.

EDUCATION

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