Ram Vakada

A full stack developer with hands-on experience in web application & server-side development, relational & non-relational databases, training & business operations management.

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HTTP://RAMVAKADA.COM
HTTP://GITHUB.COM/RAMVAKAD

TECHNICAL SKILLS

- **Programming/Scripting**: Java, C#, LUA, Python, JavaScript
- **Web Development:** HTML5/CSS3/JS, REST Web Services, Microservice Architecting, Spring Boot - MVC, AngularJS, Node.js – npm, Express.js, Bootstrap, HydraExpress, Python Flask
- **Databases:** MySQL, Oracle, Microsoft SQL, MongoDB, SQLite, PostgresSQL
- **Web Servers:** httpd, nginx, Apache Tomcat, Express.js
- **Version Control/Project Tools:** GIT, SVN, Trello, JIRA
- **Operating Systems:** OS X, Linux (CentOS, ArchLinux), Windows
- **Big Data:** Hadoop, Apache Spark, GeoSpark

- **Development Tools:** IntelliJ IDEA, Visual Studio, Xamarin Studio, Xcode, Netbeans, Atom.io, Postman, Eclipse
- **Other Technologies/Frameworks:** Build Automation – Apache Maven, JPA/ORM – Hibernate, JAX-RS – Jersey 2.0, swagger, Log4J, SLF4J, Spring Security, JWT Authentication, Apache MINA, Java RMI, .NET Remoting, .NET Web API, JUnit, Mocha, Jongo, JDBC, Redis, Google APIs, Axios, Geographic Information Systems, ArcGIS, PostGIS, pgAdmin
- **Cloud:** Amazon Web Services – EMR/S3/EC2/RDS, Google Cloud, Docker

ALMA MATER

CUNY Hunter College, Manhattan, New York

Bachelor's of Arts (BA) in Computer Science **– Expected May 2019**

The Hyderabad Public School - Begumpet, India

PROFESSIONAL EXPERIENCE

Back−End Engineer, Data Scientist, GIS Engineer – Blue Book of Homes, Nanuet, NJ   Oct 2017 – May 2018

| Back-End Design & Development, Algorithm Implementation, Data Pipelining-Sanitation, Geospatial-Data Processing & Analysis |

- Involved in all stages of startup phase and application lifecycle, focusing on coding and debugging.
- Gathered and addressed technical and design requirements.
- Collaborated with other developers to integrate user-facing elements with server side logic.
- Managed cutting-edge technologies to improve legacy applications.
- Built reusable code and libraries for future use.
- Liaised with developers, designers and system administrators to identify new features.
- Developed backend **micro** services in both the MEAN stack and the Java – Spring Boot, Hibernate stack.
- Built algorithms for valuating real estate property based on a number of variables.
- Effectively worked in a remote environment.
- Worked closely with real estate industry technologies such as listing services.
- Developed and deployed Apache Spark applications to Amazon EMR clusters w/ S3 DataNodes

Environment: OS X, Atom.io, Visual Studio Code, IntelliJ IDEA GIT, HTML5/CSS/JavaScript, Node.js, NPM, Hydra-Express, Redis, MongoDB, REST, JSON, GIT, Docker, Postgres, PostGIS, Apache Spark, Java – Spring Boot-Security-Data, Hibernate AWS, Docker, Angular, Xcode, Maven, Swagger, GeoSpark

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Technical Resource, HR – Infinity Tech Group, Hackensack, NJ   Jan 2015 − Aug 2016

| Application Development, Recruitment, IT Training & Competency Screening, Human Resource Management |

- Trained candidates in **Java, SQL, Spring, Node.js, AngularJS, MongoDB, HTML5/CSS3/JS, Web API & SPA Development**.
- Developed backend **REST** services using **Java & Spring MVC.**
- Used **swagger.io** for documentation.
- Designed responsive UI using **AngularJS & Bootstrap**.
- Managed the VPS, domains, email hosting, name servers and deployed test servers.
- Conducted technical screening interviews to verify the competency of candidates before the recruitment team submitted profiles to our clients.
- Took the opportunity to deep dive into the IT industry and learn a lot.
- Provided on-demand technical support for the entire firm.
- Managed employee records, insurance processing.
- Processed immigration applications and employee transfers.
- Worked closely with the attorney's office, vendors, employees and clients.
- Initiated and performed background checks.

Environment: OS X, Atom.io, IntelliJ IDEA, Java 8, Spring - Boot, MVC, Data, Security, Apache Tomcat, HTML5/CSS/JavaScript, Node.js, NPM, Express, AngularJS, Jackson, Jersey 2.0, MongoDB, REST, JSON, GIT, MySQL, Hibernate, Apache Maven, swagger

INDEPENDENT CONTRACTING/PERSONAL PROJECTS:

LB Voter Database – A mobile-first SPA designed to aid field agents of a law firm go door to door for petitions.   2017
| HTTP://GITHUB.COM/RAMVAKAD/LBVoterDatabase | HTTP://LESTER.RAMVAKADA.COM |
- Designed sleek, responsive, minimalistic UI to search through all the voters of Long Beach, NY.
- Implemented location services using Google Geolocation & Google Maps API to render voters closest to the user on the screen.
- Field agents were able to go door-to-door and update the petition status of the voters and add notes.
- Cached coordinates returned by Google APIs.
- Repaired corrupted .dbf files and extracted relevant data into CSV format.
- Used AES-128 Cryptography to password protect the data.
- Used PHP scripts in conjunction with MySQL for minimal data storage purposes, eliminating the need for a heavier architecture.

Environment: OS X, Atom.io, HTML5/CSS/JavaScript, LAMP, AngularJS, MySQL, PHP, fontawesome, Google Geolocation API, Google Maps API

BookstoreREST – A sample SPA designed as a capstone project for training purposes at Infinity Tech Group.   2016
| HTTP://GITHUB.COM/RAMVAKAD/BookstoreREST |
- Designed a mock bookstore website to teach students how to integrate the components of the MEAN stack.
- Implemented two back-ends, one using Node.js & Express and another using Java & Spring.
- The Java stack used Apache Maven for build automation, Spring Boot, Spring MVC, Jersey 2.0, swagger.io for documentation and Spring Data.
- The Node stack used the mongoose driver, Express for the server, body-parser for JSON parsing and Morgan for logging.
- Identical REST resources were implemented on both stacks to show modularity of technologies and demonstrate REST architecture.

Environment: OS X, Atom.io, Java 8, Spring Boot – MVC, Data, Security, Apache Tomcat, HTML5/CSS/JavaScript, Node.js, NPM, Express, AngularJS, Jackson, Jersey 2.0, MongoDB

EVORP – A role-play gamemode developed using API provided by the creator's of "garry's mod"   2013 - 2015
| HTTP://GITHUB.COM/RAMVAKAD/EVORP |
- Designed and consistently updated a fully functioning cross-platform roleplaying gamemode using LUA as the programming language.
- Developed and administrated the database, website & game server.
- Managed an online community of gamers.

Environment: OS X, Linux (CentOS), Windows, LUA, MySQL, httpd, PHP, HTML/CSS/jQuery, Sublime Text 3, gmod API

AsgardDEV – A MapleStory v110 server emulator designed in C# from scratch.   2012
| HTTP://GITHUB.COM/RAMVAKAD/AsgardDEV |
- Recorded network activity to map packet structures to game actions/commands.
- Analyzed, decoded packet structures & constructed handler classes that emulated the real server by giving valid responses.
- Used .NET Remoting for Channel – World Server Communication.
- Designed account, character, item models & corresponding database tables.

Environment: Windows, Visual Studio, MySQL, C#, .NET Remoting, Wireshark, Maple Shark

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SharpStory – A MapleStory v83 private server emulator programmed in Java, based on MoopleDEV Rev. 116.   2011
| HTTP://GITHUB.COM/RAMVAKAD/SharpStory |
- Scripted Non-Player Controlled Entities (NPCs)
- Developed an in-game eBay like auctioning system for game items.
- Integrated the same auctioning system into a web platform where players could buy these items and have them delivered the next time they login.
- Managed a Linux based web, database & application server.
- Developed PHP scripts that pulled statistics from player database.

Environment: Windows, Linux (CentOS), Java, JDBC, Java RMI, Apache MINA (NIO), Eclipse, PHP, httpd, MySQL, VisualVM, HTML/CSS/JavaScript, XML, SLF4j

ADDITIONAL INFORMATION:
- Strong INTP personality.
- References available upon request.