### Contact

6504097272 (Mobile) vamshikthanuku@gmail.com

www.linkedin.com/in/vamshikrishna-thanuku-11530b61 (LinkedIn)

### Top Skills

С

C++ Language

Core Java

### Languages

English (Native or Bilingual)

Telugu (Full Professional)

Hindi (Professional Working)

### Certifications

Oracle Certified Associate, Java SE 8 Programmer

AMCAT Certified Data Processing Specialist

Certificate in web component development using java technologies

Oracle Certified Professional, Java SE 8 Programmer

### Honors-Awards

Dollars for Scholars

1st Runner up in hackathon

# Vamshi Krishna Thanuku

Software Engineer at Cerner Corporation

Paoli, Pennsylvania

# Summary

Over 4 years of Software Development Experience in designing, developing, testing and deploying robust web applications. Sound knowledge in Java microservices, Spring Boot, Amazon Web Services (AWS). Skilled in working on content management and business intelligence applications. Looking for a job which supports my professional self-development and allows me to forward the aims of the company by providing key skills and work to complete organizational goals and targets.

## Experience

**Cerner Corporation** 

2 years 8 months

Software Engineer

September 2018 - Present (1 year 6 months)

Malvern, PA

Project: Consumer / Population Health Management

Developing "fast healthcare interoperability resource" industry standard RESTFUL micro services. Allergies, Conditions, Medications, Encounters and Document References are the micro services that are being developed now, acts as a middleman between applications involving patients, hospitals and insurance service providers.

### Responsibilities:

- · API docs are generated using integrated SWAGGER UI annotations
- ENDPOINTS of the micro services are being tested using Cerner's internal tool called Jolly Roger.
- Developing Java micro service using SpringBoot, public API using ruby and GrapeAPI.
- Development of ETL-pipeline.
- Developing Ruby Service Client, Java Service Client for API calls to micro service.
- Writing Unit, Integration, Gatling tests using scala.

• Using Jenkins for building the project, electric commander for generating the artifacts of the public

API, Ruby service client gems.

- Creating spinnaker pipeline for continuous integration and continuous deployment.
- Implementing rigmarole for auto release cuts for every release.
- Release to production in every sprint.
- Maintaining code coverage for at least 98%.
- Creating IAM roles, S3 buckets to support AWS deployment.
- Maintaining and updating configuration information in mesos and chef repos.
- Deploying the ETL pipeline in DEV, STAGING, PROD environments.
- Running coordinators, workflows in CHOPS
- Monitoring if ETL coordinators are running in CHOPS on Daily Basis.
- Checking the DCOS logs if the deployment of service has been successful or not.
- Deploying the service to Staging AWS, PROD AWS, PROD-EU (For UK environment)
- Integrating Fortify in the service, Monitoring Fortify scans periodically
- Running the twistlock scans on the docker images.

Environment: Java 1.8, SQL, ETL Pipelines, Spring Boot, Hibernate, Google Guice, IntelliJ, Swagger, Jenkins,

Maven, Scala, SPLUNK, Spinnaker, AWS, Fortify, Twistlock, Postman

#### Software Engineer

July 2018 - September 2018 (3 months)

Malvern, PA

Project: Chart Search / Population Health Management

Description: Whenever patient visits a doctor, doctor would store all the information of patient in a specific format. That information is called as "chart record". Chart record may be as big as a size of three-hour movie- Typical size of the chart record varies from 5GB- 1TB, have 100-10,000 records. It will be tough to keep in track of all the records of the patients. So, a web application has been developed in the year 2010; which was helpful in querying the record with keywords, patient-id, hospital-id, allergy name, treatment name or medication prescribed. Ruby version- 1.9.3 and rails version- 3.2.1 was used to at that time for the application development. But in 2018, Information leak vulnerability for a gem called "Sprockets-2.2.2" has been found out. One can create a specially crafted request to access files that exists on the filesystem that is outside an application's root directory, when the Sprockets server is used in production. A team of 2 engineers, 1 Solution designer has been

formed to uplift the ruby, rails and all the gem versions which exists in the chart search project to resolve the information leak issue.

#### Responsibilities:

- Uplifting the versions of ruby to 2.5.1, rails version to 5.1.2, and all the gems that exists in gem file of "chart\_search\_engine", "chart\_search\_app", "search\_test\_app" applications.
- Modifications in the UI- Used HTML-HAML.
- Used Jenkins for building the project, electric commander for building the gems.
- Added new rspecs to the application, helping to ensure that the application worked as intended and

that future changes would not break existing functionality.

Working on teaspoon, rspec, lint issues, maintaining code coverage at least 98%.

Environment: Ruby 1.9.3, Ruby 2.5.1, Rails 3.2.1, Rails 5.1.2, HTML, HAML, VSCode, Jenkins, Electric Commander

Software Engineer May 2018 - July 2018 (3 months) Malvern, PA

Project/Client: Referral Management / Population Health Management Description: Developed a micro service for the hospital referral management application that can be used by a doctor referring a patient to another doctor. Responsibilities involved end to end development of micro service and public API that has endpoints to Create, Read, Update and Delete a Referral. Responsibilities:

- Code quality and coverage are being checked using SonarQube.
- Adding the unit test cases to the application, helping to ensure that the application worked as

intended and that future changes would not break existing functionality.

- Unit tests and Integration tests are being written in SCALA.
- Implementing Java Restful webservices using a dependency injection framework called Google Guice.
- Using RESTEasy, a JBOSS implementation of JAX-RS to produce/consume REST API's
- For mapping the JAVA objects to the database, Hibernate ORM tools is being used.
- Project dependencies were handled using Maven build tool.
- Beadledom, a Cerner's bundle of common components for building webservices was used for generating the skeleton of the project.

- · Writing swagger annotations.
- Involving in extensive troubleshooting by going through the logs on the server side, occasional load

testing for the developed module and helped in improving the performance of application.

- Following Google coding style.
- Used plugins CheckStyle and Save Actions in IntelliJ for organizing the imports and formatting the code
- Using Jacoco for checking the code coverage during the development.
   Environment: Java 1.8, SQL, RESTEasy, Hibernate, IntelliJ, Swagger, Jenkins, Maven, Scala, SPLUNK,

Spinnaker, AWS, SonarQube, Twistlock, Ruby, GrapeAPI

Software Engineer July 2017 - May 2018 (11 months) Malvern, PA

Project/Client: BI Environment Team / Health Intelligence Development

Dates: July 23, 2017 - May 29, 2018

Description: Worked on developing Cerner's business intelligence applications HIUI (HealtheIntent User

Interface, SQM(Standard Quality Management), and BO (Business Objects). Responsibilities:

- Application development is being carried out in Agile scrum Fashion.
- Using Crucible to promote code to up streams.
- Unit tests and Integration tests are being written in Junit.
- Diagnosing and troubleshooting problems and providing support as necessary.
- Understanding industry best practices for user interface development.
- Communicating effectively and efficiently with internal and external clients / teams.
- Understanding dependencies and how individual contributions impact larger vision picture.
- Participating in project related sessions such as code reviews and project status meetings.
- Maintaining DSS servers, Provisioning the new servers, installing third parties, configuring roles and

features, running DSS utilities, running DSS Content, performing periodical DSS refreshes, HIUI

on boarding, working on DSS builds.

Providing On call support to client.

- · Writing stored procedures.
- Writing Chef scripts to automate various processes in DSS Application.
   Environment: Java EE, RESTEasy, MongoDB, SQL Server, SAP Business

Objects, SAP Crystal Reports,

Angular JS 2, Node JS 8.9.2, SonarQube

Atlink Communications Inc Capstone Project January 2017 - May 2017 (5 months)

Houston, Texas

Developed an Android application for locating GPS points using augmented reality. This application enables users to locate utilities using their GPS locations found underground such as Gas Lines, Water Pipes and also in air such as wires, transformers. Used OpenCV and OpenGL to get augmented reality in to action.

Environment: Android, Java, OpenGL, OpenCV, GitHub, Junit, Mockito

University of Houston-Clear Lake Graduate Teaching Assistant January 2016 - December 2016 (1 year)

**United States** 

Worked as a teaching assistant for the subject, CSCI 4320- Web Application Development.

Tech Mahindra Software Engineer October 2013 - August 2015 (1 year 11 months) Hyderabad

I've worked as a Software Engineer at Tech Mahindra for 23 months which made me extremely delighted for having been put my strong coding skills in to practice.

Project 1: Worked on content management tool (Documentum 6.1) for various enhancements, UI modifications on "Documentum Webtop".

Project 2: Worked on "Indian Railways" project, technologies used - J2SE, J2EE, Servlets, JS, JSP's and Struts

Infotech Enterprises IT Services Pvt Ltd (Infotech IT) Software Development Intern June 2012 - July 2012 (2 months) Hyderabad Developed a GPS based Android application for tracking and monitoring Infotech's civil engineering survey team. This mobile application tracks people and send their location periodically to the server.

Environment Used: Java 1.4, Android Development Tools, Eclipse

# Education

University of Houston-Clear Lake
Masters, Computer Science · (2015 - June 2017)

Jawaharlal Nehru Technological University
Bachelor of Technology (BTech), Computer Science · (2009 - 2013)

Sri Chaitanya Junior College Inetermediate Education, Maths, Physics and Cheistry · (2007 - 2009)

Paramitha High school Matriculation · (2000 - 2007)