KARTHIK LAKSHMI NARAYANA SARMA

1701 E 8th St, Apt 116, Tempe, AZ - 85281

(480) 434-7475 **Portfolio:** http://karthiksarma.me karthiklsarma@gmail.com

Github: https://github.com/karthiklsarma **Linkedin:** https://www.linkedin.com/in/karthik-sarma-6713b416

OBJECTIVE

To build a successful career in an organization that provides challenging environment and opportunities to grow professionally.

EDUCATION

Arizona State University, Tempe, AZ, U.S.A. Jan 6, 2015 - Dec 12, 2016

Master of Computer Science (MCS). Overall GPA 3.5

University of Kerala, Trivandrum, Kerala, India. July 9, 2009 - May 7, 2013

Bachelor of Technology (B.Tech) in Computer Science and Engineering. Overall GPA of 3.5.

EXPERIENCE

Junior Software Engineer – Orion Health, Scottsdale, Arizona Dec 21st, 2017 – Present

➢ Business Intelligence & Analytics

- Enhanced medical analytics platform developed using Apache Spark Streaming, Scala, Java 8 and elasticsearch
- Real time streaming for healthcare analytics.
- Proficient in functional programming using scala.
- Programming in Apache Spark using Dataframes, RDD, and PairRDD.

Graduate Software Engineer – Orion Health, Scottsdale, Arizona Jan 9th, 2017 – Dec 21st, 2017

➢ Business Intelligence & Analytics

- Contributed to a medical analytics platform developed using Apache Spark, Scala and Java 8, elasticsearch
- Rest API development using Java 8, J2EE, JAX-RS, REST services
- Front end user interface development using React, ES6, Webpack, Redux, Javascript

Application, Demo and Development Intern – Alcatel, San Diego, California May 23, 2016 – Aug 16, 2016

➢ Microservices and cloud platform

- Developed REST'ful services in Go lang for an application in the IoT domain.
- Managed distributed cluster and helped production release via Docker image.
- Proficient in application production and deployment using Apache Mesosphere, Apache Marathon and Docker machine.
- Developed skills in Linux virtualization using QEMU, KVM, libvirt.
- Used Amazon Web Services (AWS) / Elastic Cloud Compute (EC2).

Software Engineer (C++) – Quest Global, Trivandrum, India Oct 9, 2013 – Nov 10, 2014

➢ Toshiba Medical Systems Corporation (PIMS Application Development & Support)

- Contributed software engineering expertise in the development of PIMS (Patient Information Management System) through all phases of software lifecycle, from requirements definition through successful deployment.
- Provided user requirements analysis, design and programming support for enhancement of PIMS application.
- Assisted many senior developers in creating quick fixes to bugs for the software workflow process.
- Developed troubleshooting skills through log analysis and built hands-on experience in implementing design patterns.

PROGRAMMING SKILLS

- **Programming Languages** – Core Java, J2EE, Go lang, SQL, C, C++, HTML, CSS, React, C#, Node JS, R, Python
- **MVC Frameworks -** Spring MVC, JAX-RS, ExpressJS, Gorilla
- **Familiar IDE's** – IntelliJ, Eclipse, Sublime, Visual studio, PyCharm, Vi, Atom
- **Big-Data & Cloud Technologies -** Apache Spark, Apache Mesos, Apache Marathon, Docker, Hadoop MapReduce

PROJECTS

➢ **SCALING COMPUTATIONAL GEOMETRY IN DISTRIBUTED PLATFORM - APACHE SPARK** 2015 Jan - 2015 May

- Computational geometry simplified through distribution over cloud.
- Deployment in a cluster managed by 1 master and 3 slave nodes.
- Data Coordinate storage in Hadoop HDFS.
- Application developed in Java using spark libraries and spatial geometry operations implemented using JTS topological library.

➢ **MODELING DISCOURSE CENTRIC DATA (Java, JSP)** 2015 Jan - 2015 May

- A personalized support application to improve the learning experience of users by modeling data from learning
- Forums. (Algorithm used - Topic Facet Modeling)
- Automatically detects conceptual topics from short amounts of texts present on posts (taken from stack overflow dataset).
- Uses D3 visualization to show analysis results & finds whether a post is valuable or not.

➢ **ANALYTICS DASHBOARD FOR TOPIC - POST SIMILARITY IDENTIFICATION (Crossvalidated Forum)** 2016 Jan – 2016 Apr

- Analyzing the Cross Validated forum content consisting of 14000 posts.
- Discovering the most frequently used topics and their relations.
- Identified significant posts through plots drawn based on cosine similarity between post – topic content.
- Web plot shows which user contributions are important.