KARTHIK LAKSHMI NARAYANA SARMA

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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

- Enhancing medical analytics platform developed using Apache Spark Streaming, Scala and Java 8, elasticsearch
- Real time streaming for healthcare analytics.

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
- 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.
- **WIKI-GENERATOR (Express JS, Mongo DB, Node JS)** 2016 Jan – 2016 Apr
  - An application for generating a wiki out of chat messages.
  - Allows users to chat on numerous topics and show statistics for identifying quality information based on topics.
  - Users can tag when sending a chat message and like other valuable messages. The like count is used for generating statistics.
  - Wiki generation based on contents receiving likes greater than a threshold and wiki categorization based on tagging.

COURSES

- Foundations of Algorithms
- Software Security
- Data Mining
- Distributed Database Systems
- Semantic Web Mining
- Technologies for online learning
- Distributed Software Development
- Software Analysis and Design
- Applied Cryptography