Lakshminarayan Kamath

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OBJECTIVE

Seeking Full Time entry level career opportunities in the field of Software Development.

EDUCATION

North Carolina State University ***Raleigh, NC*** *Aug 2014 - May 2016*
M.S. in Computer Science and Networking GPA: 3.455

B.N.M Institute of Technology ***Bangalore, India*** *Aug 2010 - May 2014*
B.E. in Computer Science and Engineering GPA: 3.7

WORK EXPERIENCE

Performance Friction Corporation, Clover, SC ***Software/Network Intern*** *Jun 2015 - Aug 2015*

- Developed a Predictive Modeling Script to model cost of braking systems and classify them based on received Request for Proposals using k-means clustering and ID3 classification algorithm in Java.
- Provided technical assistance to IT manager and employees as required.
- Maintained, managed and troubleshoot Microsoft Exchange Server 2003 on a daily basis.

Hitech Computers, Bangalore, India ***Software Developer Intern*** *Dec 2015 - Jan 2016*

- Developed a simple inventory management GUI software using MVC architecture in Java and mySQL that helps to keep track of inventory.

TECHNICAL SKILLS

Languages	:	Java/J2EE, C/C++
Web Technology	:	Node.js, Angular, CSS, HTML, PHP, BootStrap, mongoDB, mySQL, REST, JavaScript
Networking	:	TCP/IP, UDP, Socket Programming, DHCP, DNS, OSPF, Cisco IOS, EIGRP
Tools	:	Visual Studio, Wireshark, GNS3, Android Studio, GitHub, intelliJ, JUnit Testing, OPNET

GRADUATE COURSEWORK

Wireless Networks, Advanced Data-structures, Operating Systems, Networking Services, Routed Network Design (CCNP Training), Computer and Network Security, Advanced Internet Protocols, Telecommunication Network Design

COURSE PROJECTS

Lexical Analyzer and Interpreter for PostScript language:

- Developed a Java program that can identify tokens of a user input, interpret those tokens and perform various operations on those tokens to display the result.

Capacitated Single Commodity Network Flow Optimizer using Successive Shortest Path Algorithm:

- Achieved **95%** optimization accuracy by developing a network optimizer in C/C++ to optimize the Capacitated Single Commodity Flow problem. The results were comparable to those produced by IBM's CPLEX.

Efficient Searching using order 'n' B-Trees in C++:

- Achieved improved search efficiency for a large number of records stored on a physical disk using n-order binary trees.

WEP Decryption by Statistical Attack method:

- Developed a C program to crack WEP by obtaining the password from a set of captured log files using statistical attack.

Secure E-mail system:

- Implemented an application using Shell scripting and openSSL that can send emails securely using Public Key cryptography.

In-memory indexing with Availability lists:

- Developed a C program to maintain an in-memory key index to improve searching efficiency on variable length records stored on-disk, complemented by an availability list which assisted in reallocating space of deleted records.

Android Clicker Project:

- Reduced the costs of clicker from **$25 to $0** by developing an android application along with a web interface using LAMP stack that aids in conducting paperless tests. The application provides real-time scores and statistics.

TCP/IP Peer-to-Peer Distributed Index File Sharing:

- Implemented a file sharing system in JAVA for downloading RFC's. Designed a multithreaded server for concurrency that is capable of carrying out communication with multiple clients simultaneously.