

# SUNIL K N KOUNDINYA

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## OBJECTIVE

Seeking an internship to enhance my professional skills and use my skills in the best possible way for achieving the company's goals with opportunities for career growth.

## EDUCATION

**University of Texas at Arlington, USA** May 2015 (expected)  
Master of Science in Computer Science **GPA 4.0/4.0**

**Visvesvaraya Technological University, India** June 2012  
Bachelor of Engineering in Computer Science and Engineering **GPA ~4.0/4.0 (84%)**

## TECHNICAL SKILLS

<b>Languages</b>	C, C++, Java, C#, SQL, JavaScript, Ruby, Python
<b>Web</b>	Servlets, JSP, HTML, CSS, jQuery
<b>Operating Systems</b>	Microsoft Windows, Linux, Android
<b>Database</b>	MySQL, MS Access, MongoDB
<b>Others</b>	Spring, Hibernate, JEE, Hadoop, MVC, AOP, git, Clustering, AWS, AppEngine, OpenGL

## WORK EXPERIENCE

**Software Engineer | Mindtree Limited, India** September 2012 – July 2013

- Trained on database, Java, JEE, web technologies and frameworks of Hibernate and Spring
- Worked in the telecom domain for BSS/OSS transformation of KPN and internal projects
- Roles involved application clustering, setting up of testing, staging and production environment and automation of the processes
- Proof of concepts required for the design, development and deployment phases

## PROJECTS

### Online electronic store website

- Features basic and advanced search of products, navigation, store details and social network sharing with new modern look and feel
- Agile methodologies, SCM, static code analysis, testing tools were used
- Hosted on Amazon web services using the services of EBS, RDS and EC2.

### Database Recovery subsystem in DBMS

- Simulates the behavior of undo/redo protocol for recovery from failure
- Commit, rollback, undo/redo operations are done to keep the DBMS in a consistent state after failure by maintaining the system log, transaction table and DBMS cache

### Visualization of Accident data using Machine Learning - Data Analytics on Cloud

- Big data is inserted into NoSQL MongoDB, clustered using Simple k-means of Weka and visualized using D3JS, on Amazon EC2
- Accident data of California State was used for analysis

### Wireless Audio Streamer

- Streams the audio from sound card of the Windows computer to multiple Android devices on the same network using WiFi
- Implemented using socket programming

### Analysis and classification of books of different centuries using Hadoop

- Uses map-reduce paradigm of hadoop to analyze and classify books of different centuries based on word lengths and distance between words of different word length

### Accelerometer based Gesture Recognition

- Allows user to control the desktop applications using a smartphone and play games by tilting the phone
- Android application features the basic functionalities of a joystick, keyboard, mouse and graphics tablet

### Performance analysis of Amazon S3, RDS and Google App Engine

- Analyzed the performance of Amazon S3, Amazon RDS and Google App Engine using big data
- Weather data of the US over a span of time was used for analysis

### Review and development of Computer Science Engineering website of the University of Texas, Arlington

- Automated the process of adding news and events to the site

## ACHIEVEMENTS

- Won the best user interface design in UI mania event in Mindtree Ltd.
- Runner up in the programming competition in Mindtree Ltd. for best design and implementation
- 4th rank for VTU, in Second semester along with a centum for 3 consecutive semesters in Engineering Mathematics

## RELEVANT COURSES

### **Master of Science:**

Design and analysis of algorithms, Artificial Intelligence 1, Information Security 1, Fundamentals of Wireless Networks, Cloud Computing, Advanced Computer Architecture, Software Engineering, DBMS models and implementation techniques

### **Bachelor of Engineering:**

Analysis and Design of Algorithms, Operating Systems, Data Structures, Computer Architecture, Software Engineering, Database Management Systems, Computer Networks 1, Computer Networks 2, Software Architecture, OOP with C++, Java, C#, Web Programming

## OTHER PROJECTS

### **Dropbox notifier**

- Notifies the user on update of the shared dropbox folder
- Uses Dropbox APIs and python GUI programming

### **Food catering system**

- Helps caterers, to take orders, maintain account information of users, and users, to order and track status and payment information online
- Web application implemented using JEE, Spring, Hibernate, MySQL and follows MVC architecture

### **Plagiarism detector**

- Document was checked against corpus of existing documents to detect plagiarism
- Implemented using 3 different algorithms (KMP, LCSS and Rabin Karp) and performance was compared

### **Graphics editor using OpenGL**

- Provides features for drawing and editing of 2D and 3D objects along with various transformations
- OpenGL APIs were used for this MS Paint like program

### **Human - computer card game**

- Play a card game with the computer as the opponent
- Computer uses minimax approach to find optimal solution