# SUNIL K N KOUNDINYA

400 S Oak St Apt 115 Arlington, TX – 76010 | +1 415 990 8699
suni619@gmail.com | www.linkedin.com/in/koundinyasunil
suni619.github.io

## OBJECTIVE

Seeking full-time opportunities 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** Jun 2012
Bachelor of Engineering in Computer Science and Engineering **GPA ~4.0/4.0 (84%)**

## TECHNICAL SKILLS

| | |
|---|---|
| **Languages** | C, C++, Java, C#, SQL, JavaScript, PHP, Ruby, Python |
| **Web** | Servlets, JSP, HTML, CSS, jQuery, XML, AngularJS |
| **Operating Systems** | Microsoft Windows, Linux , Android |
| **Database** | MySql, MS Access, MongoDB |
| **Others** | Spring, Hibernate, JEE, Hadoop, AWS, AppEngine, Web services, Google Maps, MVC, AOP, git, Clustering, 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

**Integration of Google maps with real estate using Web services**

- Geocoding and reverse geocoding to find the prices of houses on providing address or clicking on the Google maps
- Google maps API in JavaScript and web services from zillow.com were used

**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.

**BitTorrent Client and Tracker**

- Implemented BitTorrent client following the BitTorrent protocol
- Implemented HTTP Tracker using Web services

**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 seamlessly 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

**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, Cloud Computing, Advanced Computer Architecture, Software Engineering, Distributed Systems, Web data management and XML, DBMS models and implementation techniques, Artificial Intelligence 1, Information Security 1, Fundamentals of Wireless Networks

**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

**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

**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

**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

**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

**Chat room application**

- Chatting across multiple chat rooms by multiple users simultaneously
- Features creating a new chat room, persisting the active chat and viewing it later

**Human - computer card game**

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