CSE
Fourth Year
IIIT-Hyderabad
(+91-9652570018)
aravindreddy255@gmail.com
aravindkanna.github.io

Aravind Reddy Ayuluri

Education

2008 - 2011 **SSC**, *Dr KKR's Gowtham Concept School*, Gudiwada, *Scored 93.8 percent*.

2011 - 2013 **Intermediate/+2**, *Narayana Junior College*, Vijayawada, *Scored 96.3 percent*.

2013 - 2017 **Graduation**, *IIIT-Hyderabad*, *CGPA:- 7.78(till date)*.

Scholastic Achievements

- Secured All India Rank (AIR) **4879** in IIT-JEE 2013 out of around 1.5 lakh students.
- Secured **284** marks out of 360 in JEE-MAINS 2013.
- Was named in the **Dean's List** for the year 2015 for excelling in academics.
- **Open source enthusiast** fixed several bugs as hobby. Can find them on my github account(github.com/aravindkanna)

Work Experience

Summer '16 **Android Developer Intern**, *@Samosa Labs Software Solutions Pvt.Ltd*, Hyderabad.
Developing an Android Group Chat Application which helps people to communicate more easily

Summer '15 **Android Developer Intern**, *@Viven Informedia Pvt.Ltd*, Hyderabad.
Developed an Android Application, **SADDAHAQ**. It is an app which allows users to write and read articles about current social affairs.

December '14 **Android Developer Intern**, *@OMitra*, Hyderabad.
Implemented a functionality for OMitra, a Train Social App, of finding fluctuations in the signal strength so as to reduce the power consumption of Mobile on a move.

Monsoon '16 **Teaching Assistant**, *@IIIT-Hyderabad*.
Working as Teaching Assistant for Complexity and Advanced Algorithms course under prof Suresh Purini.

Major Projects

Transitive Closure Transitive Closure is one of the interesting problems in Computer Science Industry. I as a team of two currently studying and working on High Probability parallel Algorithms for the same under the guidance of professor Kishore Kottapally. (**code**)

Face Detection A course project aiming the detection of faces taking an image as input. Done following the algorithm given by Viola Jones. (**code**)

Short Term Projects

Apriori Implemented the famous Frequent Itemset Mining as part of a course in python. Besides finding the Frequent Itemsets I also found the corresponding associative rules.(**code**)

Wiki dump The project aims at creating index for 40GB wiki dump (xml) (part of phase1) and then create a search engine basing on this index which should retrieve the documents relative to the given query and rank them(part of phase2). In phase2 I used tf-idf for ranking and produced top 5 results for the given search query

Eigen Values	This project aims at computing the eigen values of a Symmetric Matrix in parallel. I am using OPENMP to create and use multiple threads.(**code**)
SQL Engine	Implemented a mini SQL query parser and executor in C++ to manipulate and retrieve data in csv files with appropriate error handling.(**code**)
Bash Shell	A Linux terminal implemented in C++ programming language using concepts of fork, exec, signals, pipes etc. Different kinds of interrupts were also handled.(**code**)
StampitGo	It is an Android Application which rewards users for their loyalty. It ensures offers based on their interests and needs.
Pharmacy DB	Developed a raw PHP Application as a prototype for explaining better way of storing values in tables for a Pharmacy Database.
CarromBoard	A game implemented in C++ using openGL. This project gave me an insight to OOPS techniques in C++(**code**)
Pacman	A game implemented in Python. This project gave me an insight to OOPS techniques in Python.(**code**)
External Merge	Implemented external merge sort for large files(**code**)

Computer skills

Languages	C, C++, Python, Java, PHP, XML
Scripting	Python, Bash
Web-Tech	HTML, CSS(moderate), JavaScript(moderate)
APIs	OpenGL, OpenMP
Platforms	Windows, Linux, Windows Phone, Android
IDE Tools	Android Studio, Eclipse, Git

Relevant Courses(* Pursuing this semester, ** pursued in Coursera)

Data structures, Algorithms, Artificial Intelligence, Operating Systems, Computer Networks, Graphics, Complexity and Advanced Algorithms, Database Systems, Game Theory, Statistical Methods in Artificial Intelligence(SMAI), Parallel Processing, Data Warehousing and Data Mining*, Advanced Computer Networks*, Programming Mobile Applications**, Algorithmic Toolbox**