

Akhila Murthyreddy
IV year B.Tech Student
CSE – IIIT-Hyderabad

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Academic Qualifications

B.Tech in Computer Science and Engineering - 2013
International Institute of Information Technology
Intermediate Public Examination – A.P Board of Intermediate Education
Chaitanya Junior College, Madhapur, Hyderabad.
Score – 970/1000
SSC Public Examination – A.P Board of Secondary Education
Keshava Reddy Public School, Nandyal, Kurnool dist.
Score – 561/600

Relevant Courses

Mathematics I, II and III, ITWS I and II, Digital Logic Processing, Algorithms, Computer Programming, Operating Systems, Computer System Organisation, Data Structures, Cloud Computing, Computer Networks, Artificial Intelligence, Formal Methods, SSAD and Project, Compilers, Complexity and Advanced Algorithms, Graphics, Database Systems, SMAI, NLP(*), Number Theory and Cryptography(*)

Experience with Projects

Worked at Samsung R&D in Bangalore as an Intern in Summer 2016.

Analysing Blackout periods in Dual Sim Dual Standby devices:

Analysed loss of bandwidth during transmission in a DSDS device by calculating Blackout periods in different scenarios.

Twitter Analysis on Summarization of Real Time-Events(*):

Analysing twitter data of a real time event like a cricket match or earthquakes etc.. and summarizing the subevents of that event. This is done as a BTP project for next 2 sems.

Learning Social Circles:

Clustering into circles based on user's ego network. This node clustering is done using clustering algorithms based on ego network and features similarity in the network.

Compiler for Decaf Programming Language:

A compiler for basic decaf programming language is implemented with the scanner, parser and AST constructor (IR generator).

Resume Summary on hadoop:

Developed a Web2py portal which accepts resume uploads and allows searchability on resumes with different keywords by the user. The resumes provided in different formats are parsed and stored in the database by the mapreduce codes implemented on hadoop platform.

Yoga Teaching Aid on Kinect:

An application in C# which aids basic yoga movements and corrects user movements with signs such as sounds is implemented on kinect.

Ultimate Tic Tac Toe:

A modified version of tic-tac-toe, played by the user with the automated generator, where in the automation won by almost 95% over the user. This mostly involved Artificial Intelligence skills like a good heuristic with a base running algorithm. This is implemented in Python.

Carrom Board:

Built a 2D carrom board in OpenGL and C with complete game features and score and time calculated as game progresses.

Database for Travel Agency:

A relational database in sql with queries implemented for an organisation (Travel Agency) is implemented.

Test Management SaaS Application:

Working with Progress(www.progress.com) Rollbase in developing an Application to manage test plans and test cases of Software/Hardware Products(in short managing word documents).

Minesweeper Game:

A brain storming game “Minesweeper” built with all the excellent features that makes the game a lot interesting. Extensively used Javascript, HTML, CSS, JQuery etc. Web2py, the platform for developing this game.

Technical Skills

C , C#, C++ : Experienced in C and C++ programming language.
Actively participated in a number of coding competitions.
Python : Experience in object oriented programming, Python.
Implemented games in python as part of a course.
JavaScript : Extensively used JS as part of developing games and in webpages.
Web Frameworks : Web2py – Used this in developing Minesweeper game.
APIs : Socket Programming, OpenGL
IDEs : Vim, Eclipse.
Cloud Platforms : Progress Rollbase and Hadoop.
VCS : Extensively used bitbucket and git.
Web Technologies : Experienced in HTML, CSS, JQuery, PHP, MySQL.

Bitbucket Link: <https://bitbucket.org/Akhila109/akhila>

Achievements

- A brilliant score of 297 out of 360 in JEE Mains 2013
- Ranked in 600s in Eamcet 2013 AP.
- Won Medals as district topper in Little Champs Talent Test and in SAST(Society for Advancement of Science and Technology) and a number of times winner in Maths Olympiad conducted by NAMT(As a part of celebrations of Ramanujan's birthday).
- Ranked in top 50 in IMO, ISO and ICO olympiads.
- Participated in all competitions and quizzes with a lot of interest in schools and won a number of prizes.
- Participated in hackathons and multiple coding competitions.

Other Interests:

Working as a coordinator for Ashakiran group in the campus which aims at providing good education and food for a group of school kids with limited resources around the campus.