

U.Aadithya

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Areas of Interest

Algorithms and Data Structures

Academics

Qualification	Year	Name of the Institution	Percentage/CGPA Obtained
B.E Computer Science and Engineering	2012-2016 (expected)	College of Engineering, Guindy	9.16/10(till 5semesters)
Higher Secondary (12th standard)	2011-2012	SBOA Matriculation higher sec.school (State Board)	96.9%
High School (10th standard)	2009-2010	SBOA Matriculation Higher sec.school (State Board)	95.8%

Projects

POST PROCESSING OF OCR OUTPUT:

Description: Post processing of OCR output emphasizes on improving the accuracy of OCR by detecting the errors related to OCR. The project exploits the Google's 1 trillion word web corpus and Microsoft's n-gram. Bigram language models are constructed which involves extensive training data and huge word-bigram tables to be available at run time. Redis server was used to store the bigrams in RDB format. In order to handle huge millions and billions of

data, multiple instances were initiated which requires high RAM and memory specifications. Using OCR specific algorithm and modified Google algorithm with string similarity and contextual correction based on Viterbi's algorithm, 90.52% accuracy was achieved with 10% being lost in punctuations, proper nouns, contextually tricky input text and due to bigram count effects.

Software used: Google's 1-T n-gram model (Corpus), Microsoft n-gram (Corpus), Redis Server.

Languages: Python.

TRACKME - WINDOWS APPLICATION:

Description: TrackMe is a Windows phone and store app completed within 24 hours from scratch at Microsoft's Code.fun.do. TrackMe allows the user to share their location with their friends for their own safety purpose. Parents can run the app and track their child for the whole day. It supports many-many tracking, so user can track his friend as well as get tracked at the same time. The tracking is integrated with Bing maps for a realistic experience.

Languages: C# and XAML.

Software used: Microsoft Visual studio.

CEG INFOCONNECT:

Description: CEG Infoconnect is a website which provides better connectivity among staff, department and students. It offers forums for staff and department to send information to students of selected classes and also among the staff. It provides features that allow students to ask their doubts in subjects so that the respective teachers handling them can be sent notification. It also provides a group chat for each class for connectivity among students and also among Professors.

Software used: Ampps(for server)

Languages: PHP, MySql , Javascript , JQuery , CSS , HTML.

DAILY PRICE SHOPPING ANDROID APPLICATION:

Description: This project was submitted as part of Abacus 2014. It provides an easy to use interface for both the seller and the buyer by providing online database for the seller to insert, delete and change price and category of the product and latest UI features for the buyer such as navigation drawer for the categories and action bar search for easy search of products. It also allows the user to add 'to-buy notes'. The shopping cart list is sent to the buyer via email.

Languages: JAVA, XML.

Software Skills

- Languages and Tools: C (intermediate), C++ (expert), Java (intermediate), PHP (intermediate), Python (intermediate), Ruby (intermediate).
- OS: UNIX variants, Windows, Mac OS X.
- Database: Oracle SQL+, MySQL (Basic)
- Scripting Languages: Java Script, HTML5.

Strengths

- Ability to learn and understand the things quickly.
- Capable to work well in an independent as well as in a team environment.
- Hard worker.
- Interested in competitive programming and regular participant in SPOJ.
- Regular participant in programming contests conducted by many colleges.
- Interest to learn new things and explore.

Notable achievements

- Secured first prize in Microsoft's 24 hour hackathon 'Code.fun.do' and got selected for finalists forum.
- Organized Coding Hungama, an onsite overnight 12 hours coding event by Abacus, sponsored by 'Groupon'.
- Part of Athena's, (an international online event in Kurukshetra) website team using Ruby on Rails.
- Organized Athena, an online coding event by Kurukshetra 2015.
- Part of Kurukshetra Web team 2015.
- Secured second place in 'Sync - 2013' coding event conducted by Computer Science Department in College of Engineering, Guindy.
- Successfully submitted a project for 'Abacus - 2014'.
- Got selected for finals of Markup Mania in Prayatna 2014, MIT International CSE symposium and DBMS contest in SSN college International CSE symposium.
- Completed CS50 Edx online course of Harvard University.
- Completed Microsoft Virtual Academy's Windows phone and store app development course in Javascript and HTML.

Personal Details

- Father's Name: V.Umashankar
- Date of Birth: 11-11-1994
- Gender: Male
- Languages known: Tamil, English.

I hereby declare that all the details furnished above are true to the best of my knowledge.

Date: 7th March, 2015

Place: Chennai

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