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Aditya Ramesh

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EDUCATION

Vellore Institute of Technology, Vellore, Tamil Nadu, India   June 2020

B.Tech Candidate, Major: Computer Science (CGPA as of 2nd Semester: 9.58 on 10)

Coursework: Computer Architecture/Organization, Data Structures & Algorithms, Database Management Systems, Image Processing

Discrete Mathematics & Graph Theory, Human Computer Interaction, Operating Systems, Statistics, Object Oriented Programming

Padma Seshadri Bala Bhavan, Nungambakkam, Chennai, Tamil Nadu, India   June 2016

XII CBSE Results: 472/500 (94.4%) in Physics, Chemistry, Mathematics, English and Computer Science.

X CBSE Results: CGPA of 10.0 on 10

IIT-JEE Advanced Results: All India Rank of 14,576 out of approx. 12,00,000 candidates. (Top 1.2 Percentile nationally)

EXPERIENCE

Deloitte, Bengaluru, Karnataka, India   June 2017 – July 2017

Software Development Intern

- Gained exposure toward Data Analytics and Customer Analytics
- Developed and implemented an algorithm to automate the generation of documentation of an input source code by parsing the program and applying constructive ranking algorithms based on frequency of occurrences to infer contextual importance of code snippets and elaborate the same.
- Analysed industry verticals to track and predict potential new market trends; Estimated the feasibility of, and proposed their implementation.

Zulip – Open Source Organization   May 2017

Open Source Developer

- Converted plain txt files to Django templates for necessary emails that would be sent to registered users as notifications or upon special occasions.
- GitHub PR Link - https://github.com/zulip/zulip/pull/4790

Algorithmic Contest Platforms   December 2016 - Present

Competitive Programmer

- Highest Rating on HackerRank places me in the **top 3.06 percentile** globally.
- Ranked in the **top 3.58 percentile** globally on Sphere Online Judge (SPOJ). [#11,275 out of approx. 315,000 users]
- Highest Rating on CodeChef places me in the **top 3.93 percentile** globally.
- Profile links and submissions - https://github.com/RameshAditya/Competitive-Programming

Passion Projects

Web WhatsApp Bot   July 2017

- Designed a bot using Selenium Webdriver in Python to automate the sending of "Good Morning" messages to specific contacts, on a daily basis.

Tic Tac Toe Bot   June 2017

- Designed an artificially intelligent bot that plays Tic-Tac-Toe against the user in a deterministic manner, using a backtracking depth optimized minimax algorithm. Tested against Google's Tic-Tac-Toe AI and either won or tied 100% of games.

Dynamic Hybrid Data Grid   March 2017

- Designed and implemented a data structure that facilitated real-time dynamic read-and-write of data into a grid, and optimized average data access time complexity to $O(\sqrt{n})$ from $O(n)$, ('n' being the number of objects stored) due to the two-dimensional maneuverability of the grid.

EXTRACURRICULAR ACTIVITIES

Make-a-thon, The Blueprints Club - VIT   August 2016

1st Place

- Partnered with a friend, and conceptualized a start-up with an MVP, which would mass manufacture LEGO alternatives by remoulding waste plastic obtained from empty bottles and boxes. Achieved 1st Place, graded on the idea and MVP.

Media Club, PSBB Mirror   October 2015

Chief Editor

- Was assigned the role of Chief Editor, for the school's Media Club. Corresponded with a local printing press (Makkal Kural), and managed 40 students in a high-stress environment to print newspapers reporting the events of the school's Quadrennial Project.

Quiz Club, PSBB   June 2013-June 2016

Core Member

- Represented my school in inter-school quiz competitions and won multiple laurels.

SKILLS

Technologies: C++, STL (Advanced); Python (Intermediate); MySQL (Intermediate); R (Basic); HTML5 (Basic); CSS (Basic); Git (Basic); Tableau (Basic);

Languages: English, Hindi, Tamil, Spanish

Hobbies: Competitive Programming, Pencil Sketching, Singing Pop Music, Playing Badminton

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