
EXPERIENCE

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| Software Developer | Creation Labs | Dec 2017 - Present |
| <ul style="list-style-type: none">Creation Labs is a student-driven club of VIT that encourages students with a hacker/maker mentality to work on interesting projects such as building UAV Drones, Autonomous Cars and Mars Rovers, etc.Work with the Computer Science Team of the Mars Rover Division of Creation Labs – Team RoverX, a team that is building a Mars Rover, end-to-end for international competitions like the ERC and the URC. | | |
| Software Engineering Intern | Deloitte | May 2017 - July 2017 |
| <ul style="list-style-type: none">Interned in the Information Management/Analytics Division of the firm.Automated the process of writing program documentation of C/C++/Java code by designing an algorithm that applied constructive ranking heuristics to infer the importance of modules of the code and elaborated accordingly.Analyzed industry verticals to identify untapped potential in their fields, and estimated & predicted the feasibility of potential future industrial trends by interpreting insights from published data. | | |
| Open Source Developer | Zulip | May 2017 |
| <ul style="list-style-type: none">Zulip is an FOSS organization affiliated with Google's Summer of Code, whose product is a group chat system.Designed Django templates for Zulip's emails to its users which notified them of relevant or important updates or notifications, as part of a larger project of standardizing Zulip's look. - github.com/zulip/pull/pull/4790 | | |
| Sport Programmer | Algorithmic Contest Platforms | November 2016 - Present |
| <ul style="list-style-type: none">Ranked at the top 2.98 percentile globally on HackerRank. - hackerrank.com/Aditya_RameshRanked at the top 3.45 percentile globally on CodeChef. (4 Stars) - codechef.com/users/an_avid_coderRanked at the top 3.58 percentile globally on Sphere Online Judge. - spoj.com/users/aditya_ramesh/ | | |

EDUCATION

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| Tamil Nadu, IN | Vellore Institute of Technology | June 2016 – June 2020 |
| <ul style="list-style-type: none">B. Tech. in Computer Science & Engineering, CGPA: 9.56 out of 10.0Coursework: Artificial Intelligence; Algorithms; Compilers; Computer Architecture; Databases; Discrete Math; Internet of Things; UI/UX Design; Image Processing; Operating Systems; OOPS; Statistics;AISSCE: 472 on 500 (June 2016); SSLC: 10.0 on 10 (June 2014);IIT-JEE Advanced: National Rank 14,576 from ~12,00,000 students. Top 1.2 %tile in Physics, Chemistry & MathNational Mathematics Talent Contest: Four time national finalist; Shortlisted for AMTI special training camp. | | |

PROJECTS

- Diction-based Text Analytics for Speaker Prediction** (Dec 2017) Developed an algorithm that trains on a set of conversations, mapping idiolects of speakers to probabilistically predict the speaker of the unseen data. | **Python**
- Sherlock Holmes & Markov Chains** (Nov 2017) Implemented a markov chain, trained on Sherlock Holmes novels, predicted new paragraphs of content and tweeted the generated content via a Twitter Bot. | **Python, Tweepy**
- Light Me Up** (Nov 2017 - Present) Implemented an emotion recognition algorithm with accuracy of 78% & changed the ambient lighting color of the room using an Arduino Uno. | **OpenCV, Python, Arduino**
- PetPal (HackHarvard'17)**(Oct 2017). My project for **Harvard University's International Hackathon** (HackHarvard 2017). Android app that sends image, location credentials to Firebase database and marks location on a world map to ID locations of lost pet sightings. | **Android, Node.js, JavaScript, Firebase, Bootstrap, Google Cloud Platform**
- Web WhatsApp Bot** (Jul 2017). Bot that automates the process of greeting selected contacts with "Good Morning" messages over Web WhatsApp on a daily basis. | **Python, Selenium**
- Dynamic Hybrid Data Grid** (Mar 2017). Data structure that facilitates real-time R/W of data into a grid, and brings average search complexity down from $O(n)$ to $O(\sqrt{n})$ by 2D maneuvering. | **C++**

ADDITIONAL EXPERIENCE AND AWARDS

- Algorithm Blogger:** Host a blog on algorithms wherein I publish posts explaining the intuition and application behind various powerful algorithms and data structures - rameshaditya.github.io/algorithmic-memoirs/index.html
- National Programming Aptitude Test, 100/100:** Solved 8 out of 8 questions, in the NPAT conducted by ACM, hosted by NPTEL and sponsored by Google.

LANGUAGES AND TECHNOLOGIES

Advanced: C/C++ (STL)

Intermediate: Python, HTML, Git

Familiar: PHP, MySQL, CSS