Aditya Ramesh

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Portfolio: https://rameshaditya.com/

Personal Algorithmic Blog: https://blogarithms.github.io

My goal is to build highly scalable algorithmic solutions that address challenging real-world problems.

WORK EXPERIENCE

- **D. E. Shaw & Co.** — Hyderabad, India
  Incoming Software Engineering Intern — *Summer 2019*
  - Will be joining the Technology Division of D. E. Shaw as a software engineering intern, in Summer 2019.
- **Cisco** — Bengaluru, India
  Software Engineering Intern — *Summer 2018*
  - Cisco's Enterprise Networks Group - Worked on WAAS - a product providing solutions for WAN Optimization .
  - Enhanced WAAS to support dynamic URL caching generated by CDNs of YouTube, Vimeo, Youku etc.
  - Increased WAAS' native video caching ability by a lower bound of 42% and an upper bound of over 95%.
  - All my code was reviewed, perfected and pushed to production.
- **Topcoder**
  Algorithm Blogger — *Summer 2018 - Present*
  - Topcoder enables clients like Amazon, NASA & IBM to crowdsource their technical challenges to developers.
  - Topcoder is also famous in the niche of algorithmic contests, known for their annual Topcoder Open.
  - Published on their blog - I explain powerful algorithms used in programming competitions: Google Code Jam, Facebook Hacker Cup, ACM ICPC, Topcoder Open, Codechef Snackdown etc.
- **Deloitte** — Bengaluru, India
  Software Development / Data Analytics Intern — *Summer 2017*
  - Analyzed industry verticals to identify potential & predicted new industrial trends by interpreting public data.
  - Designed & implemented software that automated generation of basic code documentation given source code.

EDUCATION

- **Vellore Institute of Technology** — Vellore, India
  Bachelor of Technology in Computer Science; GPA: 9.34/10.0 — *Summer 2016 – Summer 2020*
- **Coursework:** Algorithms; AI; Compilers; Databases; Data Mining; IoT; Image Processing; Networks; OS; Parallel & Distributed Computing; Software Engineering; Statistics; Web Development;

ACHIEVEMENTS

- **Google Kick Start Round A (2019):** 26th in India. 141st globally among 4.8K contestants.
- **Microsoft Quantum Computing Q# Contest (2019):** 10th in India. 189th globally among 5.3K contestants.
- **Google Hash Code (2019) :** 22nd in India. 622nd globally among 6.7K teams.
- **ACM ICPC Asia-Chennai Onsite Provincial (2018) :** 3rd in India, among 100 onsite teams.
- **University Rover Challenge (2018):** 2nd in India. 19th team among 96 teams globally.
- **Codechef Snackdown (2018):** International Pre-Quarter Finalist.
- **Codechef Certified Data Structures & Algorithms Program (2018):** Cleared the advanced level of CCDSAP.
- **HackHarvard - Harvard University's Onsite International Hackathon (2017):** International Contestant.
- **HackerRank (2017):** Internationally ranked at the 97th percentile on HackerRank as of 2017.
- **Codechef (2017):** Internationally ranked at the 97th percentile as of 2017. (5K out of 170K users)
- **Sphere Online Judge (2017):** Internationally ranked at the 96th percentile as of 2017. (13K out of 315K users)
- **ACM ICPC Chennai Preliminary Round (2017):** Honorable Mention.
- **VIT Academic Scholarship:** Recipient of the VIT Academic Scholarship for exceptional academic performance.

PROJECTS

- **Code Faster (Sublime Text Plugin):** Plugin to scrape problems off a programming contest platform, and import it into the text editor for speed & convenience.
- **Markov Chain Text Generation:** Built a Markov Model Bot trained on novels & tweeted generated text.
- **Recommendation System:** Built a movie recommender system using collaborative filtering on public datasets.
- **E-Maxx Open Source Algorithm Translations:** Converted Russian explanations of algorithms to English, as Google Translate tends to misinterpret technical words for .
- **Other Projects:** Android+Web app to locate lost pets; Web WhatsApp Bot; Emotion Recognition; IoT Intruder Detection via Slack; XKCD Comics Slack Bot; Image to ASCII Art generation (Featured on MyBridge's Medium); etc;

  Find all my public source codes on my GitHub (Username: RameshAditya)

CLUBS AND CHAPTERS

- **Association for Computing Machinery**: Design algorithmic challenges for collegiate-level programming contests.
- **Creation Labs**: Developed autonomous traversal algorithms for a fully-functional student-built Mars Rover.