

# RAGHAVAN G V

## 5<sup>th</sup> Year Student at IIIT-Bangalore, Graduation - 2021

in linkedin    GitHub    Codeforces    Codechef    +91 861 037 4092    @ venkatraghavan2013@gmail.com

## EDUCATION

### August 2016   International Institute of Information Technology - Bangalore (IIIT-B)

- Present**
- > Master of Technology in Electronics and Communication Engineering, Graduation in 2021
  - > Cumulative GPA: **3.57 / 4.00**

## EXPERIENCE

### > TECHNOLOGY ANALYST INTERN, MORGAN STANLEY

May 20 – Aug 20

Worked on knowledge discovery using deep learning models. Improved and Optimised Morgan Stanley's search engine that clients use to browse through the services provided by Morgan Stanley.

**Technologies used:** Python, NLP Algorithms, Deep learning models, Data Structures.

### > SOFTWARE ENGINEERING INTERN, CLEARTAX

May 19 – Jul 19

Developed a software that collects massive quantities of user data from the production database and adds it into the MOCK-GSTN server based on the requirement. MOCK-GSTN is a testing application which mocks the Indian government GSTR filing service.

**Technologies used:** Python, Flask, MySQL, RubyOnRails, Algorithms

### > INSTRUCTOR AND CORE MEMBER, IIITB CLUB FOR ALGORITHMS MATH & PROGRAMMING

May 17 – present

Working as teaching assistant at coding club of IIIT Bangalore (a.k.a **CAMP**) by giving various lectures on advanced data structures and algorithms.

### > TEACHING ASSISTANT - IIITB

Jun 19 – Jun 20

Worked as teaching assistant of Data structures and Algorithms course and C++ course in the college.

## ACHIEVEMENTS

**Google Kick Start:** Ranked **83<sup>rd</sup>** all over the world in Google Kickstart Round B 2019.

**ACM-ICPC (Regionals) – 2019:** Ranked **19<sup>th</sup>** all over India out of 2800+ teams in ACM ICPC Asia Pune Regional contest.

**ACM-ICPC (Regionals) – 2018:** Ranked **37<sup>th</sup>** all over India out of 3200+ teams in ACM ICPC Asia Kanpur Regional contest.

**IIIT Codes (2020) | An inter-IIIT Coding Competition:** Ranked **5<sup>th</sup>** All over India in IIIT Codes out of 2000+ participants over all IIIT colleges in India.

**Coding Ninjas - Code kaze 2020** Ranked **7<sup>th</sup>** All over India out of 20,000+ participants.

**Competitive Programming:** Ranked as one of the **top 100** coders in India in Codeforces with max rating of **2160**. 6 Star coder in Codechef with max rating of **2212**.

**Smart India Hackathon:** Got selected to the national finals of Smart India Hackathon which was held in Hyderabad (1000/5500 teams got qualified).

## PROJECTS

### > 3D SOLAR SYSTEM SIMULATOR

Jan 19 – Mar 19

Built an Animated solar system simulator using C++ and OpenGL-3 graphics library. Implemented efficient algorithms for ray tracing, texture mapping, etc.

**Technologies used:** C++, OOP, MVC Architecture

### > PUBLIC BUS TRANSPORTATION OPERATIONAL COST OPTIMIZATION

Jan 18 – Mar 18

Worked On Intelligent Transport data provided by the government of Karnataka on the bus routes of the city. We developed several heuristics which re-route buses and thus reduced the operational cost of the system. This resulted in 6% cost saving (reduced 3000+ man - hours) per day in Bangalore.

**Technologies used:** Python, Data Structures And Algorithms

### > CODEFORCES RATING PREDICTOR

Nov 18 – Dec 18

Codeforces is a competitive programming platform. We used machine learning to predict the rating of the user based on the problems that the user has solved.

**Technologies used:** Python, NumPy, Scikit-Learn, Pandas, OOP

### > T9 PREDICTIVE TEXT

Sep 16 – Oct 16

Developed a Python based GUI that suggests completion of words based on the user input in a fast and efficient way. This project uses Tree of Words data structure to achieve this.

**Technologies used:** Python, Data Structures And Algorithms, TkInter

## SKILLS AND INTERESTS

**Experienced:** - C, C++, Python

**Intermediate:** - Java, JavaScript, Ruby On Rails, Flask

**Familiar:** - MySQL, React, React Native