

Tushar Kanakagiri

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Education

R.V College of Engineering (Bangalore) – Senior Year

B.E in Computer Science and Engineering

- CGPA : 9.46/10

Pre-University Board (Karnataka, India) – (2011-2013) – Deeksha Centre for Learning.

- Result : 94% Overall, 96.5% - PCMC - (Top 1% in State)

Secondary Education (Bangalore) – (2003 – 2011) – CBSE – Delhi Public School.

- CGPA : 9.8/10

Awards/Honors/Positions

- Won **NASA AMES** Space Settlement Contest & presented project at International Space Development Conference 2012 held in Washington D.C.
- Recipient of **Indian Academy of Sciences** research fellowship – (Given to 342 people All India)
- Regional Finals – IET Scholarship (Awaiting regional round)
- Runner up – CSE Department – DBMS Project
- Invited Chief Adjudicator (Debate) by **IIM, Bangalore**; Invited Dy Core Adjudicator (Debate) by NUALS, Kochi.
- President – Debating Society, R.V College of Engineering ; Cultural Secretary, Delhi Public School
- Convener – RV International Debate Tournament 2015 & Co-Convener – RV Debate Tournament 2014
- Selected for Infosys - Catch Them Young Program

Work Experience

Goldman Sachs

Technology Analyst – Equities Tech Division

*Bangalore, India
May, 2016 - present*

- Working on One Delta Closing Facility – A program trading algorithm.
- Built a web module to monitor and analyze the working of the algorithm.
- Building an analytics dashboard used to observe rebalancing and other important metrics – PnL, Risk%
- Tech Stack – AngularJS, Slang and other proprietary resources.

Indian Academy of Sciences

Research Fellow – Social Network Analyst

*India
June - August 2015*

- Researched cultural trends, behavioral patterns in dynamic communities of Yelp. (<http://www.yelp.com/>)
- Found Correlations between businesses and users (Modularity Community Detection), using NetworkX.
- Ascertained the chronological trend of 'fake-reviews' through various statistical methods of analysis.
- Explored geographical intensities of cuisine preferences for zones in the US. Seek to publish a paper in 2016.

Zomato Media Private Limited

Trial Intern

*New Delhi, India
July, 2015*

- One of the fifteen candidates all across India selected, post a strenuous filtering of applications.
- Implementing a Data Visualization interface for data analytics (Similar to [Periscope](#)).
- Visualization using D3.js with MySQL as the data source. Other Tech Stack- PHP, HTML5, CSS.

Ethereal Machines

Tech Intern

*Bangalore, India
May, 2014 – Present*

- Built and maintaining a website that allows clients to view the products and services offered.
- Implemented HTML5 and CSS to establish services. <http://etherealmachines.com/>

Hackathon

Housing.com

April 2015

- Developed an application that recommends the user an optimum location based on his preferences of food, architecture, culture.
- Utilizes Google Maps API, Python to retrieve data and find optimum cluster. HTML5, JS, CSS3 for web interface.

Perk.com

December 2015

- Developed a reward (Perk Credits) based application that aims to partner with restaurants for publicity.
- Utilized Imagga Image tagging API to validate restaurant review authenticity.

Amadeus

May 2016

Runners Up – Amadeus.com

- Developed a personalized travel application that finds and suggests individuals with similar interests to include in travel planning.
- Implemented a group chat in addition to travel related targeted ads (destination, travel, tourist attractions).

Algorithmic Programming

Regional Finalist ACM- ICPC ♦ Round 1 Google CodeJam 2015&2016 ♦ Semi-Finalist HackerRank World Cup ♦ Qualified for Elimination Round 1, CodeSprint India ♦ Active on HackerRank

Projects

Compiler Design - Two Pass Macro Processor – 8086

- Implemented a 2 Pass Macro Processor – 8086 using LEX & YACC.

Academic Question Paper Creator

August 2015-Present

Full Stack Developer

- Replaces the traditional/manual method of generating question papers for Academia.
- Multiple levels of access, to different users based on permissions given(Add questions, Generate Papers etc)
- Technology stack – MySQL-Database, PHP, JS, HTML5.
- Awarded 2nd Prize Database Management System Project in Department of Computer Science.

Smart - Parking

- Implemented 2 LDR Sensors (activity logged in the database) interfaced with Arduino Uno and LEDs.
- Occupancy/Vacancy of parking slot can be viewed via a web interface in real time.

Student Results Scraper

- Gets access to all students' results, eliminating effort of sequential human brute forcing. Uses Python-[Selenium](#).
- Used PhantomJS to automate web page interaction. Working on making it a web application using Django.

Book Recommendation System (MARS)

Full Stack Developer

- Collaborative filtering technique along with Pearson Coefficient employed to recommend books to users.
- Made use of Facebook Graph API for retrieval of user data (Title, Rating etc) via Python (Requests Module)

AirlineApp (Infosys Catch Them Young)

Summer 2010

Team Leader

- An Airline App built with Visual Basic with features of making/cancelling airline reservations and requesting flight details. Led and managed a team of 6 individuals. Project ranked 1st in Infosys CTY.

Languages and Coursework

Proficient: Python, C++, AngularJS, PHP | **Familiar:** HTML5, D3.js

- ♦ Analytics Edge (edX.org) ♦ Data Structures ♦ Advanced Algorithms ♦ Discrete Mathematics ♦ Game Theory
- ♦ Computer Networks 1&2 ♦ Fuzzy Logic ♦ Finite Automata ♦ Operating Systems ♦ Probability, Statistics and Queuing ♦ Database Management System ♦ Object Oriented Programming

Co-Curricular Activities

Campus Journalist

August 2013 – Present

- Campus wide coverage of news. <https://www.facebook.com/Rvce.Updates>

Parliamentary Debating

- ♦ Ranked 31st - Asian Championships 2015, **Bali – Indonesia.**
- ♦ Participated - Asian Championships 2014, **Kuching- Malaysia.**
- ♦ Invited Judge to shortlist Debaters to represent Christ University.
- ♦ **Champion:** Indian Law School PD
- ♦ **Finals-** India Diplomacy Debate 2014, 8th Mile Debate, Central Vigilance Committee Debate 2015
- ♦ **Semi- Finals** - ILS PD 2014, IIT-Madras, PD 2014, Christ University PD 2016 **Quarter-Finals** – ILS PD 2016, NLS-D 2016, Hansraj 2015, VITDT 2014 ♦ **Octo-Finals** - Indian National Debate Championship.
- ♦ **Commendable Delegate:** Bangalore Model United Nations 2013 (Social, Cultural and Humanitarian Committee)

My Value Proposition

Actively engaging in parliamentary debating, working on Hackathon and research projects and holding leadership roles has helped me develop skills and perspective outside the engineering sciences.

Above experience and exposure combined with the analytical and mathematical background of engineering puts me in a unique position to, appreciate the value of a multidisciplinary approach while contributing to problem-solving.