

S SAI VINEET

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OBJECTIVE

To create immense value with engineering skills in the startup space or in academia.



EDUCATION

B.E Computer Science | Birla Institute of Technology and Sciences, Pilani, Goa campus

AUG 218 – AUG 2022

CGPA: 8.89

Courses taken or underway: Multivariable Calculus, Linear Algebra, Complex Variables, Probability and Statistics.

Indian School Certificate | J.H Tarapore School

MAR 2003 – MAY 2017

12th Standard percentage: 94%

10th Standard percentage: 92%



EXPERIENCE

Backend and Analytics | Sensum Fintech

JAN 2019 – PRESENT DAY

Developed high speed backtesting software on minute level data for complicated quant strategies. Designed the database and architecture for algokart.in, involving large amounts of technical and fundamental data delivered to quant strategies in real time. Developed efficient analysis tools for large scale financial strategies.

Currently working on complete intraday trade automation with minute level architecture.

Backend Developer | Student Welfare Division, BITS Pilani, Goa campus

DEC 2018 – PRESENT DAY

Contributor | Apertium (open source)

NOV 2015 – FEB 2016

Improved developer tools for the Apertium machine translation platform. Added many features to the [web application](https://web.apertium.org). Developed a tool that synchronizes svn and git repositories on the cloud in real time.

Contributor | Sugar Labs (open source)

DEC 2013 – JAN 2015

Developed novel features for a physics simulator program for the open source organization Sugar Labs during Google Code-in. Revamped and added features to Pippy, the Python IDE for Sugar OS.



AWARDS AND ACHIEVEMENTS

Indian National Olympiad in Informatics, Honourable Mention

JAN 2017

INOI is a national competitive programming contest for high school students which leads to a selected into a national training camp of 30 students. I was awarded an honourable mention for a commendable score.

Google Code-in 2015: Grand Prize Winner

FEB 2016

Google Code-in is a programming contest for high school students. Students contribute to various open source projects during the course of 7 weeks. Winners are selected holistically at the end of this period.

I was selected as one of the 28 winners globally and was invited to the Googleplex, Mountain View, California.

Google India Code2Learn

NOV 2014

Google India organized a coding contest for high school students where we had to make a project of any kind. I created a physics simulation game and won the prize, winning a Nexus 7 tablet and a certificate.



SELECTED PROJECTS

All projects (here or otherwise) are available on my [GitHub profile](#).

- **Markov Model Sentence Generator**

JAN 2017

Using the brown corpus this program attempts to learn English by creating a Markov chain of n-grams (bag of words model). Then, given a word it does a random depth first search of the Markov chain to generate a random sentence. It is a pure python script with no dependencies.

- **git-svn-sync**

JAN 2016

A server that synchronizes git and svn repositories on the cloud in real time. Developed during Google Code-in.

- **Automated Programming Judge (ebyte-judge)**

NOV 2015

A web application made in Django that automatically grades programming assignments. It was made for an interschool programming contest (ebyte) organized by my school

- **Tweet Counter**

NOV 2015

A python program that counts the number of tweets per person in a given hashtag. It was used to find the winners of a tweeting contest held during a school event.

- **Physics:** a 2d physics emulator ([VIDEO DEMO](#))

FEB 2015

A 2d physics emulator. You can draw shapes, joints, pin objects, apply motors and see things emulated in real time. [VIDEO DEMO](#). The app was made in Python and Kivy framework, it uses pymunk and chipmunk for physics simulation.

- **GCI Leaderboard**

DEC 2013

Google Code-in does not have an official leaderboard. This web application gathers data from their website and creates a leaderboard for it. It was written in Python and uses Flask.



SCHOLASTIC ACHIEVEMENTS

- BITSAT Score: 364
- Joint Entrance Examination (Main) 2018: **4308** out of 10lac+ applicants
- Joint Entrance Examination (Advanced) 2018: **3083** out of around 2 lakh applicants



SKILLS

- Web Development basics: HTML, CSS, JavaScript, ECMAScript 6.
- Python, 7+ years of experience and innumerable projects
- Fluent in C++ and Java
- Git
- Numpy, Pandas for financial data handling
- Algorithms
- Backend frameworks for Python: Django, Flask, Tornado, Web2Py
- Frontend frameworks with ES6/vanilla JS: ReactJS, AngularJS
- General bash skills, vim
- Experience with GraphQL, REST APIs
- Experience with developing web scrapers, and bots (IRC, Facebook, Telegram, etc)



ACTIVITIES

I am a curious person by nature. I love discussing ideas.

I'm part of the finance club of BITS Pilani, Goa campus and often trade on the stock market.

Mathematics is also an interest, and I have dabbled in competitive programming sometimes.