Saurabh Batra

Indian Institute of Technology | saurabhbatra96.github.io

EDUCATION

IIT GUWAHATI
BTech in Computer Science & Engineering
Expected June 2018
Cum. GPA: 8.32

SGGSPS, CHANDIGARH
Grad. 2014| 93.2% CBSE Board

BHAVAN VIDYALAYA
Grad. 2012| Chandigarh, India
10.0 CGPA in 10th grade

LINKS

Github:// **saurabhbatra96**
LinkedIn:// **saurabhbatra96**
Facebook:// **saurabhbatra**

COURSEWORK

Software Engineering
Algorithms + Data Structures
Operating Systems
Compilers
Networks
Databases
Information Retrieval
High Performance Computing
Automata Theory
Discrete Mathematics
Unix Tools and Scripting

CODING

2000+ lines:
Java - JavaScript - C
NodeJS - AngularJS - PHP
1000+ lines:
Go - Python - C++ - CSS
0-500 lines:
Shell - MySQL - D3JS
Ruby - Yacc

ACHIEVEMENTS

2016 - Runners up, Microsoft Code.Fun.Do
2016 - Head, IIT Guwahati Gymkhana Web Ops
2016 - Chief of Staff, IITG Model United Nations, Techniche
2016 - Participated and won awards in over 11 MUN conferences
2015 - Project Manager, IIT Guwahati Gymkhana Web Ops
2014 - AIR 928 in JEE Advanced
2013 - Finalist, Indian National Mathematics Olympiad.

EXPERIENCE

FRAUD DETECTION USING MACHINE LEARNING | Google Summer of Code

Apr 2018 – Ongoing

- Project: The project aims to build a new, open-source, charge-back fraud detection system for WikiMedia Fundraising using anomaly detection techniques. Details are sketched out in more detail here.

CONNECTOR PLATFORM - CLI | Google SWE Intern

May 2017 – July 2017

- Project: Make an internal 1st (Google APIs) and 3rd party (external APIs) connector platform available on various CLI fronts, including a REPL based Python module and PowerShell module. Clients can auto-generate commands using short and easy-to-make JSON configs mapping 1:1 to API references.
- Impact: Pushed 5000+ lines of code, demoed a finished prototype to VP, Eng. (Apps), deployed an internal API and a microservice.
- Technology used: Java, Python, Microservices Framework (Internal), API Framework (Internal), RPC Framework (Internal), Powershell.

IMPORT EXTENSION FOR CIVICRM | Google Summer of Code

May 2016 – Aug 2016

- Project: Develop a third-party connector add-on which allows users to import existing client data from CSV, Excel and Google Sheets to Civi's database.
- Impact: Pushed 1500+ lines of code to Civi's codebase. Extension has gone through closed apha testing.
- Technology used: AngularJS and PHP. Repository link.

PROJECTS

BACHELOR'S THESIS PROJECT | Academic Project

August 2017 - Ongoing

- Objective 1: Improve query understanding on PubMed (search engine for bio-medical research articles) for a selected subset of queries.
- Objective 2: Visualize search result documents by extracting and graphing entities and their relations within and without documents.

AI FOR TETRIS | Hobby Project

April 2017 – Ongoing

- Aim: Make an AI which plays Tetris; record and analyze data about how it performs while using different playing strategies. The final bot uses a genetic programming algorithm to optimize the heuristics it works on.
- Technology used: Go. Repository link. Blog link.

JON KNOWS | Microsoft Code.Fun.Do

October 2016

- Aim: Develop an assistant for Microsoft Word which helps you increase productivity by listing out useful synonyms, suggesting image captions, searching Bing based on your text and help improve the tone of your article using Sentiment Analysis.
- Technology used: JavaScript, NodeJS.
- Plus point: First runners up. Repository link. Video link.

CLI FOR GOOGLE DRIVE | Hobby Project

June 2016

- Aim: Develop a CLI wrapper on top of the Google Drive API so that the user can conveniently access Drive using Linux-like commands (ls, cd, rm etc).
- Technology used: NodeJS. Repository link. Blog link.