

# Saurabh Batra

Indian Institute of Technology | [saurabhbhatra96.github.io](https://saurabhbhatra96.github.io)

## EDUCATION

### IIT GUWAHATI

BTECH IN COMPUTER SCIENCE & ENGINEERING

Expected June 2018

Cum. GPA: 8.39

### SGGSPS, CHANDIGARH

Grad. 2014 | 93.2% CBSE Board

### BHAVAN VIDYALAYA

Grad. 2012 | Chandigarh, India

10.0 CGPA in 10th grade

## LINKS

Github:// [saurabhbhatra96](https://saurabhbhatra96)

LinkedIn:// [saurabhbhatra96](https://saurabhbhatra96)

Facebook:// [saurabhbhatra](https://saurabhbhatra)

## 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

### 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 alpha 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.

### WORK-FLOW AUTOMATION API | ACADEMIC PROJECT

Jan 2016 – Apr 2016

- Aim: Develop a workflow automation tool using the concepts of finite automata, to ease the construction of multi-stage forms.
- Technology used: PHP and Shell scripting. Repository link.
- Plus point: Awarded AS (A Star) grade in Software Engineering by Prof. Saurabh Joshi.