

# Vedant Kumar

vedantkumar20@gmail.com | +91 7054 845 041

## EDUCATION

### **BITS PILANI, GOA CAMPUS**

BE COMPUTER SCIENCE

MSc. CHEMISTRY

Expected Graduation: May 2020

Cum. GPA: 7.5/10

### **MP BIRLA FHS SCHOOL**

May 2014 | Kolkata, India

## LINKS

Github:// [theboywholived](#)

LinkedIn:// [vedantkumar](#)

Twitter:// [@starved\\_ant](#)

## COURSEWORK

### **UNDERGRADUATE**

- Data Mining
- Object Oriented Programming (OOP)
- Data Structures And Algorithms

### **TEACHING ASSISTANT**

- Object Oriented Programming(OOP)
- C Programming (Ongoing)

## SKILLS

### **Programming**

- C • C++ • JAVA • Python
- Verilog • LaTeX

### **Technologies**

- Git • Eclipse IDE
- NMR/IR Spectroscopy

## LANGUAGES KNOWN

- English. • Hindi. • Bengali.

## EXTRA CURRICULARS

- Debating. • Literature. • Writing.
- Running.

## EXPERIENCE

### **IDS INFOTECH PVT. LTD. INTERN**

May 2017 – June 2017 | Chandigarh, India

- Was part of the back-end team for a project which involved developing a PHP forum for the internal use of the company.
- Work involved developing the administrator side of the project which included HTML and CSS for the UI of the website, database management using MySQL and PHP as the base.

### **THE TIMES OF INDIA INTERN**

June 2016 | Kolkata, India

- The Times Of India is the world's largest selling English-language newspaper.
- I conducted interviews, both face to face and via telephone, covered events and crafted them into relevant stories.

## PROJECTS

### **SIMILARITY MATRIX OF COMPOUNDS FOR HYDROGEN STORAGE APPLICATIONS**

Aug 2017 - Dec 2017 | Dept. Of Chemistry, BITS Pilani, Goa, India

- Creating a database of compounds potentially useful for Hydrogen Storage.
- Using data visualization to create graphs which can help identify similar compounds to choose for Hydrogen Storage.

### **COMPUTATIONAL ANALYSIS OF DIELS ALDER REACTIONS**

Jan 2017 - May 2017 | Dept. Of Chemistry, BITS Pilani, Goa, India

- Modelling the reactants using software, WebMO and Avogadro.
- Check Transition State parameters using MOPAC2016.
- Rates of reactions using different substituent groups were compared.

### **STUDY PROJECT: DNA BASED SENSING OF $Hg^{2+}$ IONS**

Aug 2016 - Dec 2016 | Dept. Of Chemistry, BITS Pilani, Goa, India

- Reviewed multiple research papers involving novel methods utilizing DNA.
- Extremely small concentrations of Mercury, a bio-hazard can be detected.

### **RULE CHANGE STRATEGY IN TIC TAC TOE FOR X TO ALWAYS WIN**

Nov 2017 | Course: Logic In Computer Science

- Developed rules for the first player of Tic Tac Toe to always win.
- Programmed a Tic Tac Toe game for the same. Github, [here](#).

### **VARIABLE WAVEFORM FREQUENCY GENERATOR**

May 2017 | Course: Microprocessor and Interfacing

- Developed a variable waveform Frequency Generator Model.
- Model was then simulated using the design software, Proteus.