# Vedant Kumar

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## 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 2018 - Dec 2018 | 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.