Vedant Kumar

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EDUCATION

BITS PILANI, GOA CAMPUS
BE Computer Science
MSc. Chemistry
Expected Graduation: May 2020
Cum. GPA: 7.42/10

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)

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 | COMPUTATIONAL CHEMISTRY
Ongoing | 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.

ANALYSIS OF DIELS ALDER REACTIONS | COMPUTATIONAL CHEMISTRY
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.