RITWICK **VERMA**

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[LinkedIn://ritwick-verma](https://www.linkedin.com/in/ritwick-verma/) | [GitHub://RitwickVerma](https://github.com/RitwickVerma)

**EDUCATION**

**Master of Computer Science** Irvine, CA | Sep 2019 - expected Dec 2020

University of California Irvine

Courses: *Data Structures, Artificial Intelligence, IOT*

**Bachelor of Technology,** *Computer Science & Engineering* Chennai, India | July 2015 - May 2019

SRM Institute of Science and Technology

Courses: *Algorithm Design, Data structures, OOP using C++, Web programming, AI, ML, Java, Python, OS*

**TECHNICAL SKILLS**

**Languages:** *C* ***•****C++* ***•****Java* ***•****Python*

**Technologies:** *CSS* ***•****PHP* ***•****JavaScript* ***•****Android* ***•****M**ySQL* *•**DJango*

**Interested domains:** *Algorithms* ***•****Datastructures* ***•****IOT*

**EXPERIENCE**

**Bharat Heavy Electricals Limited |** *Software Development Intern* Haridwar, India | June - July 2017

* Created an advanced library management system for a model university.
* Programmed the web application using Java EE while designing the dynamic web pages using JSP, servlet, and SQL. Optimized the application for low latency operations achieving 2 milliseconds response times.

**Advanced Structures India |** *Software Development Intern* Bangalore, India | June - July 2018

* Extracted clients SQL data of different Django models linked by relations from the server and cataloged in excel sheets for internal documentation thus improving companies working efficiency by 10%.

**PROJECTS**

**ShutUp! |** *Android App (published)* Chennai, India | Nov 2016 - Aug 2017

* Implemented and designed an open-source gesture-based telephony control application published on play store licensed under GPLv3; more than 25000 downloads and 4.3 stars.
* Configured the application to enable the users to control the call state i.e. mute, end call or answer calls with a wave of a hand. It also allowed users to schedule calls for a future time.

**Data Acquisition System for a Sensor Network |***B.Tech Project*Chennai, India | July 2018 - May 2019

* Engineered a data acquisition system for a sensor network in a solar electric vehicle using Arduinos as slaves reading raw data and RaspberryPi as CPU displaying that information on the drivers’ screen in real-time.
* Overcame delays due to overwriting of the serial buffer while maintaining various safeguards such as temperature and voltage monitoring in place to prevent any potential tragedy.

**FlapPYball |** *Game in Python* Chennai, India | Dec 2018

* Designed and created a graphic based 2D soccer game made in PyGame where the players played as Flappy the bird.
* Simulated gravity, velocity, and collisions using extremely modular and organized code.

**EXTRACURRICULARS**

**Solareon** **|** *Head of Electronics* Chennai, India | Aug 2018 - May 2019

* Conceptualized and engineered a data acquisition system for a sensor network in a team building solar electric vehicle.
* Performed at national level in solar vehicle competitions like SUVC 2018 and ESVC 2016 and won future car award, runner-up for best solar endurance and best innovation report among other recognitions.

**Prog-Red |** *Co-founder*Haridwar, India | July 2013 - May 2015

* Founded the programming club, PROG-RED (programming redefined) where we organized and presented various workshops on Arduino, Android app development, Web development and Competitive Programming for junior students.

**RECOGNITIONS AND CERTIFICATIONS**

* Selected among top two people who cleared ZCO (Zonal Computing Olympiad)
* Won best innovation award for smart canister system at hackathon conducted by college IT association.
* Applied machine learning in python Coursera | Aug 2017 – present
* Introduction to computer programming IITBombayX | Jul 2016 – present