

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

University of California Irvine

expected December 2020 | Irvine, CA

Bachelor of Technology, Computer Science & Engineering

SRM Institute of Science and Technology

May 2019 | Chennai, India

TECHNICAL SKILLS

Languages: C • C++ • Java • Python

Technologies: CSS • PHP • JavaScript • Android • MySQL

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.

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

- Headed the electronics part in a team making a solar electric car. Conceptualized and engineered a data acquisition system for a sensor network.
- 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 school's first-ever 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
- Introduction to computer programming

Coursera | Aug 2017 - present
IITBombayX | Jul 2016 - present