RITWICK VERMA

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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 • MySQL • 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