

RAVINDER SINGH

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EDUCATION

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|----------------------|--|--------------------------------------|--------------|
| Aug 2018 - May 2020 | Master of Computer Science | NC State University, Raleigh, NC, US | GPA :N/A |
| Coursework | Data Structures & Algorithms, OOP, Automated Learning and Data Analysis | | |
| Sept 2014 - May 2018 | B.Tech in Computer Engineering | DD University, Nadiad, GJ, IN | CGPA :8.7/10 |
| Coursework | Operating Systems, Data Structures, Computer Networks, Software Engineering, Image Processing, Data Mining, Artificial Intelligence, UNIX Scripting and Tools, Service Oriented Architecture | | |

SKILLS

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|-------------------|---|
| Programming | C, C#, Python, Java, Assembly, Prolog, Ruby |
| Database | Oracle Database, Microsoft SQL Server, MySQL, MongoDB |
| Web Development | HTML, CSS, Bootstrap, JQuery, Javascript, PHP, ASP.NET, Node.JS, AngularJS, Material UI, JSON |
| Tools | NetBeans IDE, Visual Studio, MATLAB, Jupyter, R, JSP & Servlets, Arduino Board, NI LabVIEW |
| Certifications | 'Machine Learning by Stanford University' on Coursera. (September 17, 2017) |
| Areas of Interest | Machine Learning, Data Science, Computer Vision |
| Other Interests | Follow Football enthusiastically, an avid FIFA player, explore scenic beauty |

WORK EXPERIENCE

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|---|-----------------|----------------------|
| Institute for Plasma Research, Gandhinagar, GJ, IN | Research Intern | Dec 2017- March 2018 |
| <ul style="list-style-type: none">Interfaced closed loop system comprising of rotary encoders, stepper motors and drive controllers with a digital control system for test and characterization of probe positioning system. Created different modes of execution for performing maintenance of the system and conduct experiments with or without load.A technical report has been published under the title 'Development of digital control system in LabVIEW for stepper motor drives'. | | |
| <div>RS485</div> <div>Serial Communication</div> <div>NI LabVIEW</div> | | |

PROJECTS

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|--|---------------------------------|
| CONSOLE BOT | FOOTBALL LIVE SCORE SCRAPER |
| Simplified the effort of following football matches during the examinations. Scraped live scores and provided accurate notifications to the users on command prompt for all live football matches from www.goal.com . Provided a list of live matches for selection and subscription for the respective notifications. | |
| <div>Node.JS</div> | |
| SERVICE ORIENTED ARCHITECTURE | DAILY PHOTO WEB SERVICE |
| Created a REST api web service which achieves interoperability between Node.JS and Android. Hosted the web service on a server with daemon processes to scrape the photos daily at a specific time and send it to the subscribed users on the android application. | |
| <div>Android</div> <div>Node.JS</div> <div>mongoDB</div> | |
| DATABASE APPLICATION | REVERSE WELLNESS PORTAL |
| Created a web portal for database management for a medical facility as a freelance web developer. Designed and Developed an efficient data-collection and user-management interface. Created user-specific treatment certificate generation. The database handles data for more than one franchise and is live. | |
| <div>PHP</div> <div>Javascript</div> <div>HTML</div> <div>Material UI</div> <div>MySQL</div> | |
| REAL TIME APPLICATION | ONLINE BIDDING SYSTEM |
| Developed a real-time bidding system for auctioneers and people to list their products for auction. This project is deployed on college server and identified bids for more than one user and was used in the college tech-fest in a competition named 'Hardware Rush'. | |
| <div>Socket.io</div> <div>Node.JS</div> <div>AngularJS</div> <div>MongoDB</div> | |
| WEB APPLICATION | ONLINE TRAVEL MANAGEMENT SYSTEM |
| Created a medium for users to compare various holiday packages, book the appropriate ones and also for travel agencies to list their packages for users. Created a sub-section for creating custom trips and comparing quotations from various agencies. | |
| <div>ASP.NET</div> <div>C#</div> | |

LEADERSHIP POSITIONS

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| PRESIDENT : COMPUTER SOCIETY OF INDIA, DDU STUDENT BRANCH | JULY 2016 - JUNE 2017 |
| HEAD CO-ORDINATOR FOR COMPUTER DEPARTMENT : FELIFIC'17 (DDU TECHNO-CULT FESTIVAL) | MARCH 2017 |