Yash Sharma

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EDUCATION

University of California, Merced • Merced, CA   August 2019 – May 2022
Bachelor of Science
- *Computer Science & Engineering | Applied Mathematics Minor*
- *GPA: **3.963***

Santa Rosa Junior College • Santa Rosa, CA   August 2016 – June 2019
Coursework Taken Concurrently with High School
- *Computer Science*

TECHNICAL SKILLS

C/C++, **Java**, **Python**, **Linux OS**, **Bash Shell**, Assembly Lang (MIPS) , Javascript, Data Structures, LaTex, **Google Cloud Platform**, Firebase, MongoDB, NoSQL, **Git**, Leadership, Management, Microsoft Office, Selenium

PROFESSIONAL WORK EXPERIENCE

Virtual Research Experiences – Computing Alliance of Hispanic Serving Institutions   July 2020 – Present
Remote
- **Published a paper** in Reliable Computing (interval computations) journal
  http://www.cs.utep.edu/vladik/2020/tr20-94.pdf
- Perform **research** with Professor Vladik Kreinovich from University of Texas El Paso
- Expand on **Interval Arithmetic** to explain how to handle operations with negative intervals
- This allows for a better understanding of how to handle negative examples in data processing
- Present research in Great Minds in Stem conference and their poster competition

Web Technologist – University of California Merced   August 2020 – Present
Remote
- **Create, update and maintatin** the websites for the UC Merced SSHA department and staff
- Coordinate with the staff to update/develop personalized features for their websites.
- Identify and repair bugs, broken links and various other problems with the websites

NexTech Coordinator – CITRIS and the Banatao Institute   January 2020 – May 2020
Merced, CA
- **Co-lead** the program as a NexTech Coordinator and a Student Assistant
- **Teach** middle school students **programming**, **design**, and **embedded systems**
- Develop the students experience in HTML/CSS, RobotC, and VexIQ robots.
- **Create**/**Design** curriculum and schedule for intro **programming course** and **workshops**
- **Spearheaded** the development & teaching of online curriculum for students to learn robotics during COVID-19
- Developed curriculum around the use of robot simulators to accommodate for the shift online

IMPORTANT COURSEWORK

- **Past:** Classical Mechanics, **Data Structures**, Discrete Mathematics, **Computer Organization & Assembly Lang** , Vector Calculus, Differential Equations and Linear Algebra, Computer Programming, Probability and Statistics
- **Current:** Circuit Theory, **Algorithm Design and Analysis**, Linear Analysis, Intermediate Differential Equations

ACADEMIC WORK EXPERIENCE

UCM Food Robot – Back-End Technical Lead   August 2019 – Present
– *University of California, Merced*
- **Designing** and **developing** an autonomous robot to deliver food to UC Merced Students and Employees
- **Creating** a **website** to allow users to order food to be **delivered** with the robot
- **Delegating** and **distributing tasks** to back-end team members while **coaching** my new team members
- Created **database tables** to hold inventory and new orders. Allocated the orders to users within the user table

Vibe – HackMerced Hackathon Project   February 28, 2020 – March 1, 2020
– *University of California, Merced*
- My team and I won **1st** place for best health focused project
- **Utilized** Firebase's real-time database
- Created a **Bash script** to automate the Raspberry Pi incrementally pulling/parsing data from the database
- **Developed** a website to detect and improve a user's mood by altering the music, website design, and led lights
- Created cloud functions to trigger my code when certain database events occur, such as the user table updating

EXTRA CURRICULAR ACTIVITIES

- Association for Computing Machinery **Leadership** Workshops and Mentoring
- South Asian Student Association Leadership
- Robotics Society Member