

SHIVANSHU GUPTA

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Education

BACHELOR OF SCIENCE, COMPUTER SCIENCE AND
ENGINEERING

Expected Graduation May 2022

University of California, Merced: Merced, CA

Relevant Coursework: **Data Structures, Algorithms**, Discrete Mathematics, Computer Organization and Assembly Language, Artificial Intelligence, Human Computer Interaction, Object Oriented Programming, Operating Systems, Full Stack Development

Technical Skills

- PROGRAMMING LANGUAGES: Java (3 yrs) • C++ (3 yrs) • Python (2 yrs) • C (1 yr) • Assembly (1 yr)
- TECHNICAL SKILLS: Git • Postman • MongoDB • Express • ReactJS • Node • Heroku
- OPERATING SYSTEMS: Windows 7, 8, 10 • Mac OS • Basic Linux command line experience
- SOFT SKILLS: Strong Work Ethic • Good Communication • Problem Solving • Adaptable

Professional Experience

DIAMOND J DAIRY FARM INTERN - *Cow Detection in Soaker Area* August 2021 - Present

- This project is about efficiently using computer science to solve an issue with dairy farms and conserving water. My team and I worked closely with the owners of the farm to detect if a cow is present in its pen and spray an adequate amount of water to cool them off.
- In Python we leveraged OpenCV and Yolo's pretrained model with limited success, currently we are using Labellmg's annotation software along with Google Collaborator's free GPU to train a model specific to Diamond J Dairy Farm's cows implemented by YOLO's algorithm.
- <https://github.com/shiv248/OpenCV-Cow-Detection>

HACKTECH 2020 HACKATHON - *Arte* March 2020

- Developed a platform to connect artist with patrons to buy and sell art found through an infinite art feed, equipped with viewership statistics
- I created the backend using **Mongo** and **Express** and setup API endpoints for the client side
- <https://github.com/Clown-Tech/arte>

HACKMERCED ENGINEERING DIRECTOR June 2019 - September 2020

- Managed a team of 6 to create the HackMerced V Hackathon website following MERN stack
- Communicated with a Design Team to align the expectations to achievable terms within deadlines
- Mentored and assisting a team of 11 to create a HackMerced VI Hackathon Website
- <https://github.com/HackMerced>

MESA LABORATORY RESEARCH ASSISTANT August 2018 - June 2019

- Analyzed 3D flight data containing 1,000 RGBD values
- Aligned and overlapped RGB values with their depth values using the **ROS** BagtoDepth library