

# Anirudh Singh Shekhawat

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## EDUCATION

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### University of California San Diego

San Diego, CA

Master of Science in Computer Science; GPA: 3.875 / 4

Sep 2017 – Dec 2018

*Relevant Coursework: Recommender Systems, Probabilistic Reasoning and Learning, Machine Learning, Neural Networks for Pattern Recognition, Mathematics for Robotics*

### M.S. Ramaiah Institute of Technology

Bangalore, India

Bachelor of Engineering in Computer Science; GPA: 9.59 / 10 (Graduated with distinction)

Aug 2013 – Jun 2017

*Relevant Coursework: Machine Learning, Artificial Intelligence, Big Data, Data Analytics, Image Processing*

### Udacity

Online

Self-Driving Car Engineer Nanodegree

Nov 2016 – Nov 2017

## EXPERIENCE

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### Google: Software Engineer Intern

Jun 2018 – Sep 2018

- **Phone Battery Complication:** Created a battery efficient, phone battery level indicator for the Wear OS smartwatches
- **Out-of-box experience animations:** Added support for Lottie animations to the Wear OS phone app to improve users' smartwatch setup experience.

### UC San Diego: Teaching Assistant

Jan 2018 – Jun 2018

- **ECE 180A and 180B: Software Foundations:** Helped students understand object oriented design and implement algorithms, data structures and an entire database engine in C++
- Developed scripts to automatically grade student assignments using TravisCI, Node.js and Google Test
- **CSE 190A: Database System Implementation:** Helped students implement components of a database, B+ Tree Index and Buffer Manager

### Indian Institute of Science: Research Assistant – DREAM Lab

Jul 2016 – May 2017

- **GoFFish v3:** Developed a Large Scale Distributed Graph Processing framework based on Apache Giraph
- Achieved upto 40x improvement in runtime of algorithms by adopting a Subgraph-Centric compute model instead of a Vertex-Centric model

### M.S. Ramaiah Institute of Technology: Facilitator

Apr 2016 – May 2017

- **Google Applied CS with Android:** Taught 150 sophomore and junior year students Google's Applied Computer Science course
- Helped students improve their core data structure and algorithms knowledge and skills using Android as a platform

### M.S. Ramaiah Institute of Technology: Project Engineer

Jun 2015 – Apr 2016

- **IBM Smart Farming Initiative:** Fabricated an IoT infrastructure to autonomously control irrigation of fields
- Developed modules for Intel Edison to control irrigation pumps and record weather data, and an Android app to provide farmers with statistics & motor controls.

## PROJECTS

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### AI for Self-Driving Cars: Robot Operating System, OpenCV, TensorFlow, Python, SciPy, C++

Nov 2016 – Nov 2017

Developed traffic light aware ROS nodes to follow waypoints along a track. Trained semantic segmentation networks to detect free space on the road where the vehicle can drive. Built a path planner, model predictive controller and localization particle filter for an autonomous vehicle. Architected a deep neural network to clone human driving behavior.

### Legal Advisor: TensorFlow, Python

Sep 2016 – Dec 2016

Developed a system to provide legal advice to laymen, answering queries by providing appropriate sections of the Indian Penal Code and relevant court cases, using deep learning for NLP.

### ridAR: Arduino, Android

Jul 2016

Built an Augmented Reality helmet to help people navigate by displaying navigation information on the visor. Won second place in ITC InfoTech Hackathon among 45 teams chosen from 1700 entries.

### Gait Analysis for Health Monitoring Using One-Class SVM Algorithm: MATLAB

May 2016

Analyzed the gait of individual subjects to find and report anomalies and changes in gait, using One-Class SVM.

## AWARDS

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### Best Achiever Award M.S. Ramaiah Institute of Technology

May 2017

*Awarded for academic, co-curricular and extra-curricular achievements and service to the community*

### Runner-up Digital Ocean Venturesity Hackathon – 208 participants

Jun 2016

*Built a web-app on MEAN stack to find restrooms nearby*

### Winnner Corona Labs App Development Competition

Jun 2016

*Won the inter-college game development competition held across colleges in India*