

# KARTHIK GANESHRAM

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## EDUCATION

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**University of California, Davis**

*September 2018 - December 2018*

Global Study Program

GPA: 4/4

**SRM Institute of Science and Technology**

*June 2016 - May 2020*

Bachelor of Technology

Overall Percentage: 89.85/100

Department of Electronics and Communications Engineering

## TECHNICAL STRENGTHS

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**Computer Languages**

Javascript, C, MySQL, Python, Bash, Lua

**Software & Tools**

Linux, Node.js, Magic, Latex

**Hardware**

Raspberry Pi, Arduino, NodeMcu, MIPS development board

## EXPERIENCE

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**Indian Institute of Technology, Madras**

August 2020 – April 2021

*Project Associate*

- Worked under Prof.Devendra Jalihal and Prof.Radhakrishna Ganti
- Tasked on a DRDO project in communication systems.

**Indian Institute of Technology, Madras**

December 2019 – April 2020

*Undergraduate major project*

- Internship for Major project for B.tech
- Worked under Prof.Devendra Jalihal
- Tasked with preparing and analyzing data collected from the internet router traffic to detect network traffic anomalies to create a dynamic firewall.

**Indian Institute of Technology, Madras**

May 2019 – June 2019

*Research Internship*

- Worked under Prof.Devendra Jalihal
- Tasked with building an openWrt based operating system with ability to capture the network traffic data and control routers from a centralized server.

**UC Davis**

October 2018 – November 2018

*Research Project*

- Worked under Prof.Kent Wilken
- Connecting low power micro-controllers securely to the internet.

**Reliable Helping Hands**

March 2017 - May 2017

*Web Development internship*

- Designed and maintained the website for the NGO.

## ACADEMIC ACHIEVEMENTS

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Achieved academic perfection during Global Study Program, UC Davis, 2018

Ranked 1/200 Inter-department Physics project Competition, SRM University, 2016

## COURSES

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### Online Certification

Programming for everybody (Getting Started With Python) - Coursera

Python Data Structures - Coursera

Algorithms Specialization by Standfor University - Coursera

## POSITION OF RESPONSIBILITY

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**Next Tech Labs — Student Research Lab**  
*Tesla Lab*

August 2017 - May 2020  
*SRMIST*

- Research associate

## PROJECTS

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### Blockchain-based medical system — Next Tech Labs

- A distributed medical system built for a hackathon aimed at providing reliable access to patient history and to curb fake prescriptions.

### Home/Lab automation — Next Tech Labs

- Automatic control of electrical appliances in the house with integrated sensors. Manual control was allowed through a web application built for smartphones. It was built using Node.js and Raspberry Pi.

### Autonomous RC vehicle — Personal project

- A autonomous RC vehicle capable of maintaining lane and detecting stop signs. capable of calculating distances of signs using monocular vision. It used OpenCV and raspberry pi for controlling the vehicle.