KARTHIK GANESHRAM

raams.karthik@gmail.com

karthikganeshram.in

(530)-979-3160

EDUCATION

University of California, Davis   *September 2021 - Present*
MSc
Department of Electrical and Computer Engineering

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

Computer Languages	Javascript, C, MySQL, Python, Bash, Lua
Software & Tools	Linux, Node.js, Magic, Wireshark, Latex, Microsoft Office
Hardware	Raspberry Pi, Arduino, RISC-V, MIPS

EXPERIENCE

Indian Institute of Technology, Madras   August 2020 – April 2021
Project Associate

· Worked under Prof.Devendra Jalihal and Prof.Radhakrishna Ganti
· Tasked on a 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.

Minambalam   May 2018 – July 2018
Web Development

· Created a new front-end interface for the editors of the magazine to streamline the publication process.
· Also created a serverless back-end architecture for the magazine.

Reliable Helping Hands   March 2017 - May 2017
Web Development internship
· Designed and maintained the website for the NGO.

ACADEMIC ACHIEVEMENTS

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

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

COURSES

Online Certification

Programming for everybody (Getting Started With Python) - Coursera

Python Data Structures - Coursera

Algorithms Specialization by Standfor University - Coursera

Nand2Tetris - Coursera

Online workshop

MYTH - Microprocessor Yourself in Thirty Hours

POSITION OF RESPONSIBILITY

Next Tech Labs — Student Research Lab   August 2017 - May 2020
Tesla Lab   *SRMIST*
· Research associate

PROJECTS

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.