

Karthik Ganeshram

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OBJECTIVE

Highly motivated Computer Engineering graduate student with good interpersonal and communication skills. Looking for an internship opportunity in computer architecture, parallel programming, performance engineering and software development.

EDUCATION

UNIVERSITY OF CALIFORNIA, DAVIS

M.S. IN ELECTRICAL AND COMPUTER ENGINEERING

Mar 2021 - Present | Davis, CA

CGPA: 4.0

Courses: Computer Architecture, Performance Engineering of Software Systems, Hardware Security, Digital System Testing

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

B.TECH. IN ELECTRONICS AND COMMUNICATION ENGINEERING

Jun 2016 - May 2020 | Chennai, India

Overall Percentage: 89.85%

UNIVERSITY OF CALIFORNIA, DAVIS

GLOBAL STUDY PROGRAM

Sep 2018 - Dec 2018 | Davis, CA

CGPA: 4.0

SKILLS

PROGRAMMING LANGUAGES

C, Javascript, Python

SOFTWARE & TOOLS

Linux, Wireshark, Node.js, RedisDB, Bash, Cloudflare workers, Git

HARDWARE

Arduino, Raspberry Pi, RiscV

CERTIFICATIONS

- Algorithms Specialization by Stanford University
- Nand2tetris,
- MYTH (Microprocessor Yourself in Thirty Hours),
- Python for Everybody

EXPERIENCE

PROJECT ASSOC. | INDIAN INSTITUTE OF TECHNOLOGY, MADRAS

Aug 20 – Apr 21 | Chennai, India

- Worked on a communication systems Project under Prof. Devendra Jalihal and Prof. Radhakrishna Ganti

PROJECT INTERN | INDIAN INSTITUTE OF TECHNOLOGY, MADRAS

Dec 2019 – April 2020 | Chennai, India

- Tasked with preparing and analyzing data collected from the internet router traffic to detect network traffic anomalies to create a dynamic firewall.

PROJECT INTERN | INDIAN INSTITUTE OF TECHNOLOGY, MADRAS

May 2019– June 2019 | Chennai, India

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

RESEARCH PROJECT | UNIVERSITY OF CALIFORNIA, DAVIS

Oct 2018 – Dec 2018 | Davis, CA

- Worked with Prof.Kent Wilken on a project involving connecting low power micro-controllers systems to the internet securely.

WEB DEVELOPMENT INTERN | MINNAMBALAM

May 2018 – June 2018 | Chennai, India

- Worked on creating a front end editor interface along with a back-end serverless architecture for the editing process.

RESEARCH ASSOCIATE | NEXT TECH LABS

Aug 2017 – May 2020 | Chennai, India

- Worked with fellow student researchers on various projects related to IoT.

PROJECTS

BLOCKCHAIN-BASED MEDICAL SYSTEM | NEXT TECH LABS

Feb 2018 | Jaipur, India

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

LAB AUTOMATION | NEXT TECH LABS

September 2017 – Oct 2017 | Chennai, India

Automatic control of the electronics based on sensor data along with a web application for manual control.

SMART WATCH | NEXT TECH LABS

Aug 2017 – Sep 2017 | Chennai, India

Built a smart watch system capable of monitoring vital signals like oxygen saturation and heart rate to detect anomalies.

AUTONOMOUS RC VEHICLE | PERSONAL PROJECT

May 2017 – Apr 2017 | Chennai, India

Built an autonomous RC vehicle capable of maintaining lane and detecting stop signs using openCV and raspberry Pi.