

NITIN KESAVAN NAIR

EDUCATION

VIRGINIA TECH

MS Computer Engineering

Blacksburg, Virginia, U.S.A

Expected Grad. 2020

GPA: 3.76

SASTRA UNIVERSITY

B.Tech Electronics and Communication

Thanjavur, Tamil Nadu, India

Grad. May 2017

CGPA: 7.48444 (First Class)

BHAVANS RAJAJI VIDYASHRAM

Senior School Certificate

Examination (CBSE)

Chennai, Tamil Nadu, India

Grad. March 2013

Grade: 92%

INDIAN SCHOOL MUSCAT

Secondary School Certificate

Examination (CBSE)

Muscat, Sultanate of Oman

Grad. May 2011

CGPA: 9.6

COURSEWORK

Computer Vision

Social Computing

Network Security

Advanced Machine Learning

Autonomous Coordination

SKILLS

PROGRAMMING

Over 3000 lines:

C • C++ • Python

Over 1000 lines:

NodeJS • Matlab • Assembly • Java

Verilog • VHDL • Bluespec

Familiar:

MySQL • Shell • Labview • \LaTeX

TOOLS

OpenCV • Tensorflow • Keras • Dlib

CO-CURRICULAR

- Part of the Research in Autonomous Vehicles group in SASTRA University.

- Won various quizzing and other technical events in festivals like Sankalp, an intra-collegiate technical festival hosted by SEE, SASTRA University.

EXTRACURRICULAR

- Core member of the University Theatre team "*The Studio*".

- Represented the University and have won various awards like "*Best Play*", "*Best Director*" and "*Best Actor*" numerous times at various intra-university cultural festivals and various inter-university cultural festivals.

- Part of KS Upahaar, a social initiative to raise funds through arts which is directly utilized in providing education essentials in schools in rural India.

CONTACT

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LinkedIn:// [nitinnair](https://www.linkedin.com/in/nitinnair)

EXPERIENCE

VIRGINIA TECH | Graduate Teaching Assistant

January 2019 – Present | Blacksburg, Virginia

- Working as the GTA for "ECE 2574: Data Structures and Algorithms" conducted by Dr Yaling Yang.

VIRGINIA TECH | Lab Technician

December 2018 – February 2019 | Blacksburg, Virginia

- Built a heterogeneous sensor module to detect and characterize packages in a conveyor belt as part of work done in Computational Multiphysics Systems Laboratory under the supervision of Dr. Tomonari Furukawa for NEC.

VIRGINIA TECH | Member, Victor Tango, AutoDrive

November 2018 – February 2019 | Blacksburg, Virginia

- Working on building the perception modules for the AutoDrive challenge, a three-year autonomous vehicle competition to develop and demonstrate a full autonomous driving passenger vehicle.

VIRGINIA TECH | Graduate Research Assistant

August 2018 – Present | Blacksburg, Virginia

- Working on building deep learning models for 'omic studies under the supervision of Dr. Frank Aylward.
- Built a deep learning sequential model to identify RNA polymerase from raw gene sequences.
- Working on identifying different domains from proteomic sequences.

IIIT BANGALORE | Research Associate

July 2017 – July 2018 | Bangalore, India

- Part of the Multimodal Perception Lab headed by Dr. Dinesh Babu J.
- Built a marker-less Augmented Reality project involving jewellery for which face and ear landmark detectors were built using both ensemble of regression trees and convolutional pose machines.
- Designed and built an initial framework for a socially aware virtual language tutor.
- Worked towards improving the various functions of the virtual agent including speech synthesis and recognition, language understanding, attention and intention detection and estimation etc.
- Designed a sensor based action recognition network using TCN.
- Built a sequential model which can estimate engagement of students in the wild.

AMERICAN MEGATRENDS | Project Associate

December 2016 – March 2017 | Chennai, India

- Part of the Research and Development team in the IoT division of AMI. Acquired practical know-how about the IoT domain while working towards the final year thesis "*Kalman Filter assisted Indoor Positioning using Bluetooth LE*".
- Was given an overview about Apache Kafka and Apache Spark which was used to ingest data generated by the IoT devices along with the know-how to write Linux kernel module and device driver.

IIT GUWAHATI | Indian Academy of Science Summer Research Fellow

May 2016 – July 2016 | Guwahati, India

- Under the supervision of Dr. Ashish Anand at IIT Guwahati, I worked on two projects namely "*Retrofitting Word Vector to Multiple Semantic Lexicon*" and "*Evaluation of Relation Extraction using Distant Supervision*"

PHILIPS HEALTHCARE | Summer Intern

June 2015 | Chennai, India

- Acquired both theoretical and practical knowledge on various Medical diagnostic imaging systems with the help of individual product experts as well as site visits to various hospitals.

AWARDS

2016

Indian Academy of Science Summer Research Fellowship

PUBLICATION

iWOAR '18

Human Activity Recognition Using Temporal Convolutional Network

ICMI '18

Predicting Engagement Intensity in the Wild Using Temporal Convolutional Network (EmotiW Challenge Paper)