

# SHRAVAN MURALI

shravanmurali.com | shravanmurali@gmail.com

## EDUCATION

### NIT TRICHY

B.TECH IN MECHANICAL ENGG.  
May 2014 - present | Trichy, TN  
Expected graduation : May 2018  
Overall CGPA: 7.45

### M.E.S INDIAN SCHOOL

Grad. May 2014 | Doha, Qatar  
12th grade : 93.8 %

## LINKS

- Github:// [shravan97](#)
- LinkedIn:// [shravan97](#)
- SPOJ:// [shravan97](#)
- Blog:// [blog.shravanmurali.com](#)

## COURSEWORK

### UNDERGRADUATE

- C Programming
- Applied Electrical & Electronics
- Probability and Statistics
- Linear Algebra
- Fourier Transforms
- Numerical Methods
- Image Processing

### INDEPENDENT

- Algorithms : Design and Analysis I & II, By Stanford University
- Machine Learning, By Andrew Ng (Stanford University)
- Operating Systems and Systems Programming (CS 162) , UC Berkeley
- CS231n Convolutional Neural Networks (Stanford university)

## SKILLS

### PROGRAMMING

Over 5000 lines:

C++ • Python

Over 1000 lines:

Java • Javascript • C • PHP

version control :

Git

Tools and Databases:

MySQL • Apache • Shell

Frameworks/Libraries:

TensorFlow • Keras • PyTorch

Flask • Django • Guice • JUnit4

## EXPERIENCE

### GOOGLE | WEB SOLUTIONS ENGINEERING INTERN

May 2017 – July 2017 | Hyderabad, INDIA

Worked with the Data & Tools team in gTech (sales operation) to facilitate the efficient collection of metrics in a pipeline written in FlumeJava for a configurable quality tool. This involved the use of many state-of-the-art Google technologies like Guice, Spanner and Protocol Buffers

## RESEARCH

### IMAGE ENHANCEMENT USING REINFORCEMENT LEARNING

NIT TRICHY | OCTOBER 2017 - PRESENT

Working on building a generic transformation function for image enhancement, using Deep Reinforcement Learning

### AUTOMATED DRIVING ASSESSMENT

NIT TRICHY | AUGUST 2017 - PRESENT

Instructor : ES Gopi

Developing a machine learning model to assess the quality of a vehicle driver and give automated suggestions based on his/her driving skills

## PROJECTS

### SAFR | SEPTEMBER 2016 - PRESENT

(WON INGENIUS HACKATHON)

An Android app that enables you to login to any domain by simply scanning a QR code instead of remembering your tedious credentials

### PRAGYAN CMS | OCTOBER - DECEMBER 2015

(1800+ DOWNLOADS)

link : [github.com/delta/pragyan](https://github.com/delta/pragyan)

Wrote a module called the publications module for an open source CMS built using PHP. The module enables faculties to create, edit and delete their publications

## OPEN SOURCE

### OPENMINED | OCTOBER 2017 - PRESENT

link : <https://github.com/openmined/>

Implemented unfold tensor operation for PySyft, the deep learning and homomorphic encryption library of Openmined. The unfold operation was implemented efficiently using Numpy

### DUCKDUCKGO | OCTOBER 2016 - JANUARY 2017

link : [github.com/duckduckgo/zeroclickinfo-fathead](https://github.com/duckduckgo/zeroclickinfo-fathead)

Implemented web scraping in Python to fetch the details of over 400 SQLAclahmy functions from the documentation

## ACHIEVEMENTS

2017	2nd Place
2016	55 out of 1900+
2016	106/2900+ teams
2016	1st out of 250+ teams

Shaastra Algorithmic Coding contest 2017, IIT Madras
Battle of Bots #7 by HackerEarth
ACM ICPC 2017 India Online round
Ingenius Hackathon, conducted by PESIT, Bangalore