

# Saravanan Rajendran

SOFTWARE ENGINEER

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## Professional Experience

### Myntra

Banagalore, KA

SOFTWARE ENGINEER

July 2019 - PRESENT

- Optimised and reduced the number of servers consume by the checkout service by 90%.
- Designed and implemented a client-side stats to track the backend api, which also creates alerts when a micro service goes down. This has drastically shortened the time (from one working day to instantly when a api fails) it takes to find and fix a bug in the checkout-related micro services.
- Implemented modern payment processing flow, which boosts the user experience and reduce complexity, allowing the third-party gateway to be easily integrated with Myntra.
- Designed and implemented multiple coupons construct in checkout, which helps in increasing new user acquisition.
- Designed and implemented a library for tracking and visualising code changes and their impact. This will assist the QA in comprehending the effect and concentrate on the code that was susceptible.

### Samsung Research Institute Bangalore

Banagalore, KA

SOFTWARE ENGINEER INTERN

May 2019 - Jul 2019

- Implemented a block chain-based app to enhance the protection and privacy of home IoT devices.
- Designed and created the platform using docker which can emulate multiple hosts and a range of IoT devices.
- I passed Advanced test, one of the difficult and competitive programming challenge at Samsung.

### MySwots

Remote work

SOFTWARE ENGINEER INTERN

Apr 2017 - May 2017

- Implemented a notes taking app for students to help them remember the content they learn.
- Implemented a system which converts the base64 images in web pages to images, uploads to cloud and replaces their URL in image tag.

### National Informatics Centre (NIC)

Chennai, TN

SOFTWARE ENGINEER INTERN

May 2018

- Implemented an new load balancing algorithm to handle heavy load and improve fairness.
- Increased throughput by 20% by the new algorithm implementation.

### CEGGLUG

Chennai, TN

PROGRAMMING MENTOR

Sept 2017 - Mar 2018

- To develop my junior students' coding skills, I taught them programming concepts.
- I took courses to other students in the department in order to pique their interest in programming and lift their knowledge of advanced computing concepts.

## Skills

**Languages** JavaScript, Go, Python, C++

**Frameworks** React, Express, OpenCV, Tensorflow

## Projects

### P-Convolutional In Image inpainting

- Implemented partial convolution in image inpainting.
- Trained a model that could in-paint an image with irregular and randomly positioned holes.
- Implemented all the optimizations and verified the results independently.

### Deep Coder

- A python implementation of the original Deep coder paper published by Microsoft.
- Implemented all the DSL and a way to generate all possible combination out of it.
- Trained a neural network on the labeled set generated randomly.
- I was able to independently verify the results.

### **Palm and Finger Replication**

- Runner up in CEG's Robotics club competition.
- Implemented computer vision based palm and finger detector.
- From video of the hand, it could replicate the movement in an robotic arm.
- This is based not based on deep learning and it works in real time.

### **Unusal**

- Implemented system hardware usage stats with lua, using conky API in linux.
- This would ease the job of handling the system resource handling, especially if you have a mid range PC.

## **Honors & Awards**

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### **Accenture Blockchain Hackathon**

- Finalists in Accenture Blockchain Hackathon, where 2500 participants had participated.

### **ChargeBee - Women Tech Fab**

- Second Runner up in WTF hackathon, where 200 people had participated.

### **Tip Expo**

- Won the TIP expo(Intra-college technical exhibit) which had 150 students participation.

## **Education**

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### **College of Engineering Guindy**

BACHELOR OF TECHNOLOGY IN INFORMATION SCIENCE AND TECHNOLOGY (B.TECH.), GPA: 9.08/10

- **Graduated in First class**

*Chennai, TN*

*May 2019*