

# Parth Thakkar

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## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY - TRICHY

B.TECH IN COMPUTER SCIENCE  
ENGINEERING

Expected May 2018

CGPA: 8.90

## LINKS

Github:// [thakkarparth007](#)

Hackerrank:// [thakkarparth007](#)

## COURSEWORK

### UNDERGRADUATE

Operating Systems  
Formal Languages & Automata  
Computer Architecture  
Internetworking Protocols  
High Speed Networks  
Database Systems  
Data Structures & Algorithms  
Probability Theory  
Discrete Structures

## SKILLS

### LANGUAGES

Proficient:

C • C++ • Javascript  
Python • HTML • CSS  
MySQL

Intermediate:

Java • PHP • Bash

Familiar:

x86 • Ruby • Scala  
GoLang

### TOOLS & TECH

Proficient:

Linux • NodeJS • MongoDB  
Git • Backbone.JS • Socket.IO  
Semantic-CSS

Intermediate:

AWS • Serverless  
CUDA • GDB

Familiar:

IBM BlockChain •  $\LaTeX$   
Wireshark • Alexa Skills Kit

## EXPERIENCE

### AMAZON | SOFTWARE ENGINEERING INTERN

May 2016 – July 2016 | Chennai, India

- Worked on an Echo-driven Tech Conference, where Amazon Echo devices use voice recognition to act as help desks and MoC's.
- Built a fully serverless backend with NodeJS, AWS, and Serverless to power FireOS Apps, the Alexa Skill and a website. Made to work in unreliable network conditions. Used JWT for authorization.
- Integrated it with internal systems, and handled Ops of the whole system.

## PROJECTS

### OPTIMIZING PERFORMANCE OF NEURAL NETWORK BASED ALGORITHMS FOR SPEECH RECOGNITION USING CUDA |

AUGUST 2016 - PRESENT

- Implemented a parallel neural network that recognizes phonemes on CUDA.
- Further work involves extending the implementation to convert audio to text in realtime using LSTM neural networks.

### IBM B2B BLOCKCHAIN | AUGUST 2016 - PRESENT

- The project involves modifying existing authentication method of IBM's B2B platform to support AADHAAR based authentication.
- It also involves implementation of the backend on IBM Blockchain.

### PHD/MS ADMISSIONS PORTAL | APRIL 2016 - MAY 2016

[https://github.com/Chandana02/PhD\\_form](https://github.com/Chandana02/PhD_form)

- The portal replaced the existing paper based admission process in our college.
- The project was deployed successfully to production and streamlined the admission process to a great extent.

### DELTA MAILER | SEPTEMBER 2015 - DECEMBER 2015

<https://github.com/thakkarparth007/mailer>

- A command line utility to send transaction mails to large number of people.

## AWARDS

|      |                     |                                       |
|------|---------------------|---------------------------------------|
| 2016 | 2nd                 | InOut Hackathon, NIT Surat            |
| 2016 | 3rd                 | Code-O-Soccer, Kshitij, IIT Kharagpur |
| 2016 | 2nd                 | Onsite Programming Challenge, Vortex  |
| 2016 | 3rd                 | Three's a Crowd, Pragyan, NIT Trichy  |
| 2016 | Best Business Model | Ventura, E-Summit '16, NITT           |
| 2015 | Top 10              | Ingenius Hackathon                    |

## EXTRA CURRICULARS

|                   |  |
|-------------------|--|
| Delta Force       | The premier Computing Club of NIT Trichy                 |
| Aaveg             | Core Member of Aaveg 2016, first year cultural festival  |
| Bits N Bytes      | Author at CSE Newsletter-cum-Magazine                    |
| Pragyan WebOps    | Team that handles web operations for Pragyan, NIT Trichy |
| Technical Council | Pragyan, NIT Trichy                                      |