

# Deep Bhattacharyya

bhattacharyya.deep@outlook.com | +91 9047142795  
www.deep14.me

## EDUCATION

### NIT TIRUCHIRAPPALLI

B.TECH. IN COMPUTER SCIENCE  
AND ENGINEERING

Expected May 2019 | Trichy, India  
CGPA: 9.59/10.0

### DELHI PUBLIC SCHOOL, RUBY PARK

Grad. May 2015 | Kolkata, India  
98.6% | Eastern Zone Topper

## LINKS

Github:// [coderick14](#)

LinkedIn:// [deep14](#)

Codeforces:// [coderick14](#)

CodeChef:// [coderick14](#)

## COURSEWORK

### UNDERGRADUATE

Algorithms & Data Structures  
Operating Systems  
Combinatorics & Graph Theory  
Computer Networks  
Computer Organization  
Discrete Mathematics  
Finite Automata  
Database Management Systems  
Pattern Recognition

## SKILLS

### ALGORITHMIC CODING

#### PROGRAMMING

Over 5000 lines:

C • C++

Over 1000 lines:

Python • Golang • Java • JavaScript

Familiar:

PHP • Git • MySQL • Shell

• Laravel • Django

## EXTRA CURRICULAR

### CONDUCTED LINUX AND PYTHON WORKSHOP

Attended by 100+ first year students

### SERVED AS HEAD BOY IN SCHOOL

President of Student Council  
2014-2015 at DPS, Ruby Park

## EXPERIENCE

### CODENATION | SOFTWARE ENGINEERING INTERN

May 2018 – July 2018 | Bangalore, India

- Developed a service for automated refactoring of duplicate code in large codebases using static code analysis and graph algorithms.
- Fixed over 2500 lines of duplicate code across two Github repositories.

### IIT BOMBAY | SUMMER ENGINEERING INTERN | GITHUB | WEBSITE

May 2017 – July 2017 | Mumbai, India

- Developed a load sharing, scalable architecture for remote-triggered virtual lab systems with Raspberry Pis acting as the secondary servers.
- Led to a 30% reduction in load on the primary server and increased fault tolerance of the system.

### SPORTSCAFE | FRONTEND DEVELOPER INTERN | WEBSITE

Dec 2016 – Jan 2017 | Bangalore, India

- Used ReactJS to build a real-time dashboard which displayed the fixtures, standings, results and live commentary of sports tournaments.
- All code was reviewed, perfected, and pushed to production.

### DELTA FORCE | SOFTWARE DEVELOPER

Aug 2016 – Present | National Institute of Technology, Tiruchirappalli

- Core member of the official programming club of my college.
- Developed web applications for university related activities, student community and techno-management festivals.
- Problem setter for the algorithmic contests conducted by Delta Force.

## PROJECTS

### ACEDIT | COMPETITIVE PROGRAMMING CODE TESTER | GITHUB | PYPI

July 2017 – Aug 2017 | Trichy, India | 50+ stars on Github

- Tool to run user submissions against sample test cases from Codeforces, Codechef, Hackerrank and Spoj, without leaving the terminal.
- Prefetch test cases for multiple problems at once, for subsequent offline usage.

### ARMED | ARMV8 EMULATOR IN GOLANG | GITHUB | GoDocs

Mar 2017 – May 2017 | Trichy, India | 45+ stars on Github

- Command line tool to execute ARM assembly code.
- Emulates register states, memory accesses, function stack and ALU operations.

### DALAL STREET | STOCK MARKET SIMULATOR | GITHUB

Nov 2016 – March 2017 | Trichy, India

- A multiplayer virtual stock market game, with a server that provides a gRPC API written in Golang to support hundreds of concurrent requests.
- Played by over 500 simultaneous users across the country.

## AWARDS

2018	2 <sup>nd</sup> /40 teams	Singapore-India Hackathon, NTU, Singapore
2017	11 <sup>th</sup> /120+ teams	ACM ICPC Chennai Regionals, 2018
2017	1 <sup>st</sup> /60+ teams	Onsite Programming Contest, Vortex, NIT Trichy
2017	1 <sup>st</sup> /100+ teams	Code-O-Soccer, Kshitij, IIT Kharagpur