Parth Thakkar
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Education

National Institute of Technology, Trichy
B.Tech
Computer Science and Engineering
2014-2018
CGPA 8.90

Links

github// **thakkarparth007**
linkedin// **thakkar-parth**

Coursework

Operating Systems
Formal Languages & Automata
Computer Architecture
High Speed Networks
Databases
Data Structures
Algorithms
Probability Theory

Languages

C • C++ • Javascript
Python • SQL • CSS
Intermediate
Java • PHP
Familiar
GoLang • Lisp • Bash

Tools & Tech

Webdev:
Node.js • MongoDB
MySQL • Websockets
Express.js • Laravel
JWT • jQuery
Bootstrap • BackboneJS
Platforms
AWS • Linux • CUDA
Hyperledger • Wireshark
Alexa Skills Kit
Dev tools
Git • Gradle
NPM • LaTeX

Experience

Aug 2016 - Now **IBM, India** *Student Developer*
- Working on developing a Blockchain based B2B platform for IBM using Hyperledger.
- Working on a hybrid mobile app for customers using the ionic framework.
- Using govt's Aadhaar APIs for authentication and e-KYC, and UPI for handling payments.

May–Jul 2016 **Amazon Development Center, India** *Software Engineer Intern*
- 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 on AWS to power FireOS apps, the Echo devices and a website. Designed the system with unreliable network in mind.
- Wrote integration tests and handled deployment and Ops of the whole system.
- Succesfully deployed and used at Amazon's India Tech Conference '16.

Projects

Oct 2016–Now **Dalal Street** *Lead Programmer*
- Event in Pragyan '17, international tech fest of NIT Trichy. A virtual stock market game where players compete against each other and bots to get rich.
- Leading a team of 13 programmers to make a realtime platform involving a C++ matching engine, a market simulation model and automated bots.
- Developing a websocket based API in Go to support hundreds of concurrent mobile, web and bot clients.

Aug - Oct 2016 **Optimizing performance of Neural Network algorithms for ASR on CUDA**
- Sped up an existing implementation of parallel neural network that recognizes phonemes on CUDA by 40x.

Oct 2016 **XSalsa20 Stream Cipher** github/thakkarparth007/salsa20
- XSalsa20 is an extension of the popular Salsa20 stream cipher.
- Extended an existing Salsa20 implementation to also support XSalsa20.
- Wrote Matlab code to analyse the cipher's properties.

Awards

Aug 2016 **Hack InOut** 2nd place
Made a voice-based interactive bot that teaches students over a basic telephone and answers basic queries, all in Hindi, for Hack InOut '16, one of India's largest student-run hackathons, hosted by NIT Surat.

Apr 2016 **Ventura** *Best Business Model*
Won 'Best Intra NITT Business Model' in Ventura of E-Summit '16, a national level hackathon and entrepreneurship summit conducted by E-Cell, NIT Trichy.

Feb 2016 **Three's a Crowd** 3rd place
Showcased ability to design a complex algorithm, split the task effectively and to work efficiently in a team in Pragyan '16, the international techno-management festival of NIT Trichy.

Jan 2016 **Onsite Programming Challenge** 2nd place
Showcased knowledge of and aptitude for programming and algorithms in Vortex '16, the national level technical symposium of the department of Computer Science and Engineering, NIT Trichy.

Jan 2016 **Code O Soccer** 3rd place
Coded robots to play soccer using finite state machines in Kshitij '16, Asia's largest techno–management festival conducted by IIT Kharagpur.