Parth Thakkar

thakkar.parth.d@gmail.com

EDUCATION

NATIONAL INSTITUE OF TECHNOLOGY - TRICHY
B.Tech | 2014 - 2018
Computer Science Engineering
Cum. GPA: 8.90 / 10.0

LINKS

Github:// **thakkarparth007**
LinkedIn:// **thakkar-parth**

COURSEWORK

UNDERGRADUATE
Operating Systems
Formal Languages & Automata
Internetworking Protocols
Database Systems
Data Structures & Algorithms
Probability Theory
Discrete Structures

SKILLS

Proficient:
Go • Python • Javascript • C
Intermediate:
C++ • Java • Bash • PHP
Web:
NodeJS • MongoDB • MySQL
React • ExpressJS • Serverless
Tools & Tech:
AWS • Git • Cuda • Alexa Skills Kit
Arduino • Hyperledger Fabric

AWARDS

2017, 3rd
Pragyan Capture the Flag, NITT

2017, 2nd
Shaastra Programming Challenge, IIT M

2016, 3rd
Code-O-Soccer, Kshitij, IIT Kharagpur

2016, 2nd
Onsite Programming Challenge, Vortex, NITT

2016, 3rd
Three's a crowd, Pragyan, NITT

2015, Top 10
Ingenius Hackathon

EXPERIENCE

IBM RESEARCH LABS, INDIA | Research Intern
May 2017 – August 2017 | Bangalore, India

- Worked on performance benchmarking and optimizing Hyperledger Fabric, IBM's Blockchain platform.
- Wrote a generic, highly configurable and reusable load generator, which was used for further performance studies.
- Produced a report on the relations between several configurable and observable parameters of Fabric v1.0.
- Proposed 3 key optimizations that improved performance 16x (from 140tps to 2250tps). All the proposed optimizations are going to be merged into the Fabric codebase.

DOS LAB, IIT MADRAS | Research Intern
May 2016 – July 2016 | Chennai, India

- Worked at the Distributed & Object Systems lab on setting up a POC hybrid private cloud between IIT M and CDAC Chennai using OpenStack.
- The cloud is powered by BOSS MOOL, a Linux variant.
- Proposed a secure software-license sharing mechanism between multiple private clouds deployed on OpenStack

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. Used JWT for authorization.
- Integrated it with internal systems, and handled Ops of the whole system.

PROJECTS

GENERIC APPLICATIONS PORTAL
https://github.com/delta/generic-applications-portal

- A tool to generate any applications portal super easily.
- Wrote a DSL based on HTML to generate both frontend and backend code.
- Handles validation, saving, preloading & providing multiple views of same data.
- The DSL-compiler validates all data references across different views.

DALAL STREET https://github.com/thakkarparth007/dalal-street-server

- Event in Pragyan, techfest of NIT Trichy. A virtual stock market game where players compete against each other and bots to get rich.
- Lead a team of programmers to make a realtime platform involving a fast matching engine and automated bots
- Used gRPC to support hundreds of concurrent mobile, web and bot clients.

REMBOOK https://github.com/delta/rembook

- A single page webapp for sharing memories of the graduating students.
- The webapp handled heavy load (several million requests in a few days) and also handled generation of PDFs of all the memories for a given person.

EXTRA CURRICULARS

Delta Force	The premier Computing Club of NIT Trichy
Bits N Bytes	Author at CSE Newsletter-cum-Magazine