

HARSH JAIN

B.Tech. Computer Science and Engineering
UG(IV Year I Semester)
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Registration No: B.Tech./CSE/16114028/2020

Indian Institute of
Technology
Roorkee



Area of Interest

Web Security and Development, Algorithms and DS, Cloud Computing, blockchain

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2019	B.Tech. 4th Year	Indian Institute of Technology, Roorkee	8.205
2016	Twelfth	Bharatiya Bal Vidhya Mandir School / CBSE	84.0 %
2014	Tenth	St francis convent school / CBSE	10.0

Internships

Blockchain developer | Hyperledger(Linux foundation) 3 Jun 2019 - 23 Aug 2019

- This intern involved working on X.509 certificate transparency using hyperledger(CTB or HFCTB). Developed and deployed blockchain network, worked with docker and kubernetes, maintained multiple servers on digitalocean, create web interface for CA and a firefox extension for querying state of certificate within CTB. Used fabric,caliper and blockchain-explorer.

Summer Analyst | Citi Bank(Banking) 13 May 2019 - 13 July 2019

- Work was based around Geneos tool, which is used for monitoring servers. I had to config monitoring on servers under regulatory services and create dashboard for Reghub,VA and SDRE domains.

Python Developer Intern | Praktice.ai(Health care chatbot) 7 Apr 2018 - 8 Jul 2018

- During this intern, i got to work on making application distributed by using various components of aws, setting vpc, load balancing, rds and dynamo. CI/CD integration with bitbucket and also wrote flows of the bot for segments like find doctor, health package selection and getting general data of patients.

Projects

Kapitan | Cloud Configuration generator April 2019

- Kapitan is a deepmind project for generating configuration for kubernetes and terraform. I added yaml parsing for jsonnet and has two pending PR.

VM scheduling | Project (under Prof. P. Sateesh Kumar) Dec 2017 - Jan 2018.

- This project was focused on finding suitable algorithm for scheduling virtual machines on physical machines to reduce overall cloudlet processing time.
- Wrote and tested a meta-heuristic algorithm (like Particle Swarm Optimization) based on paper. The datacenter virtual environment was provided by icloudsim(java datacenter framework).

Linkerd | Cloud Orchestration March 2019

- Linkerd is a service mesh for kubernetes. It is used for monitoring services and pods deployed. It has prothemeus for collecting data from pods and grafana for analysts over accrued data.

Tunzal | Blockstack Dapp Aug 2019

- Tunzal is a tunneling solution to expose local endpoint outside of the private network at minimal cost. It uses lightning network for payment, it enables us to provide refund to much valued users.<https://tunzal.ml>.

Go-template | Golang Python April 2019

- this library exposes template rendering capability of go package go/template for python. Binding for c object generated from go/templates is used. This library is a wrapper around it. It is available via pip for Python 2.7, 3.5, 3.6, 3.7.

Earthquake detector | Microsoft cfd Oct 2018

- this project was developed for Microsoft code.fun.do 2018. It uses rain guage, moisture sensor and accelerometer for calculating risk percentage. It also has a android app and, a dashboard for monitoring all the sensors. And uses Azure services like cosmosdb, function, IOT hub.

Slacklens | SDSLabs Oct 2017- feb 2018

- Slack-lens is for listening, storing and retrieving messages broadcasted on slack.It is written in clojure using leiningen and uses elasticsearch as its database. It uses slack-rtm API.
- These messages can later be viewed through the web interface with filtering, with extra support for threads.

Awards / Scholarships / Academic Achievements

- Oct 2018| Mitter hackathon: received first prize by the mitter.io
- Oct 2018| Settle hackathon: This project finished third and was integrate in settle application.
- Oct 2018| HackInOut: won category prize offered by matic-network
- Feb 2018| Microsoft CFD: won microsoft code.fun.do 2018 and got the chance to visit microsoft, Hyderabad.
- KVPY 2015 AIR -398
- JEE Advance 2016 AIR: 441

Skills

Computer languages	C++, C, Java, Clojure, Javascript, Python, PHP, Go, Solidity
Software Packages	Pycharm, git, bash, vscode, sublime, vim, MySQL, blender, gimp, Apache/Nginx, Node.js, Django, GDB, Ubuntu/Debian, PHP-MVC, ethereum, bitcoin, hyperledger fabric
Languages Known	Hindi (SRW), English (SRW)

Positions of Responsibility & Extra Curriculars

SDSLabs(Member)

Jan 2017- Mar 2018

- Working on internal projects like slacklens, erdos etc. Participating in group activities, spreading tech culture within the campus. Managing shristi, and internal/external hackathons

Cognizance(Web Co-Opted Member)

Jan 2018 - Jul 2018

- Worked on website, both frontend(react) and backend(node.js), also worked on updating schema, maintaining history, testing the application. Integrated oauth and followed a well-structured approach while working on such large application.

Wellness Center(Secretary Web Development)

Feb 2018 - Present

- Maintenance of its website, managing events.

References

Dr. Balasubramanian Raman

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