







# Yoogottam Khandelwal

Computer Science Undergraduate

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## PROJECTS

### Visual sudoku solver

Solves a sudoku puzzle "shown" to the computer.

### Linux shell

A shell for linux written in C supporting most of the common features.

### Interactive matches

A system which allows bots to play a multiplayer interactive game in isolation.

### Key-Value Store

Fast, in-memory thread-safe key-value store written in C++ using compressed tries.

### Anomaly Detection

An IoT-based solution which performs audio based abnormal activity detection, sends alerts and reports. Deployed on campus for a few weeks.

## SKILLS

### LANGUAGES

*Day-to-day:*

Python • Bash • C/C++ • JavaScript

*Familiar:*

Go • x86 asm • Ruby • PHP • Rust

### MISCELLANEOUS

*Comfortable:*

Docker • Flutter • NGINX • MySQL • Flask • MERN stack • gin • LXC/LXD

*Familiar:*

Kubernetes • Redis • Apache

## EDUCATION

### B.Tech. (Honours) in Computer Science

IIIT Hyderabad • August'18 - present • CGPA 9.68/10

### COURSEWORK

Operating Systems • Software Systems • Computer Systems Organization • Data Structures • Algorithms • Software Programming for Performance • IoT

### ACHIEVEMENTS & OTHER ACTIVITIES

- Dean's Merit List '18-'19.
- Qualified for ACM-ICPC '18 regionals.
- Runner Up, Megathon'19.
- Moderator of Hacking club. Organized a few capture-the-flag (CTF) competitions and held sessions on CTFs.
- Designer for the student-run magazine.

### Other courses

- Machine Learning by Stanford University
- Deep Learning specialization by deeplearning.ai

## EXPERIENCE

### Site Reliability Engineer

Alcrowd • March'20 - present

Technologies: Kubernetes, Docker, Python

### Student Systems Administrator

IIIT Hyderabad • August'19 - present

Technologies: OpenVZ, LDAP, Squid, NGINX, Nagios, networking

On-call maintenance and deployment of institute-wide infrastructure and services.

### Web Developer Intern

Virtual Labs, MHRD • Spring 2020

Technologies: Python, JavaScript

Modernized the Artificial Neural Network labs by upgrading outdated Java/Flash code to Processing JavaScript and converting legacy PHP code to Python Flask.

### Head, Technical Team

E-Cell IIIT Hyderabad

Technologies: Jekyll, NGINX, ReactJS, Django

Managing servers and conducting various events including one of India's largest student-run hackathon, Megathon.