

Avinash Madhukar

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EDUCATION

UNDERGRADUATE

UPES

B.TECH IN COMPUTER SCIENCE

Grad. May 2018 | Dehradun, India

School of Computer Science

Cum. GPA: 2.79 / 4.0

SCHOOL

MODERN INTERNATIONAL SCHOOL

Grad. May 2013 | Delhi, India

Percentage: 72.4

UNDERGRADUATE COURSES

Mathematics for Computer Science

Data Structures

Design and Analysis of Algorithms

Operating System

Computer System Architecture

OOPS Programming

Theory of Computation

DBMS

Cryptography & Network Security

Introduction to Machine Learning

Courses on Mainframe Technology

Introduction to Open Source

SKILLS

PROGRAMMING, SCRIPTING, & MARKUP LANGUAGES

Over 5000 lines:

- Python

Over 1000 lines:

- C/C++ • Java • Javascript

Familiar & Others:

- Assembly • Elm • Go • HTML & CSS •

JSON/XML • Shell

DEVELOPMENT

• Systems: Microsoft Azure, CircleCI, Docker, Git, Heroku, Jenkins, RabbitMQ, TravisCI

• Frameworks/ Stacks: Django, Flask, OWASP Security Framework, React.js, TICK Stack

• Databases: InfluxDB, MongoDB, Redis, SQLite

EXPERIENCE

INDIAN INSTITUTE OF REMOTE SENSING | PROJECT TRAINEE

May 2017 - August 2017 | Dehradun, India

- Predicting new terrestrial biodiversity hotspots hypothetically using the data generated by remote sensing and GIS.
- Using multi-criteria-based analysis and spatial decision support system to get a better estimate of the spatial and temporal changes in hotspots in real time.

DIGICRED TECHNOLOGIES | ENGINEERING INTERN + DEVELOPER

Jan 2018 - April 2018 + April 2018 - Aug 2018 | Gurugram, India

- Worked on the Veris VMS web application, removed legacy Polymer WebComponents with React.js Components.
- Load Testing using Locust.io, Veris REST API's Performance & Stress testing using Postman & Selenium.
- Created Statuspage service, using Telegraf-InfluxDB-Chronograf-Kapacitor as monitoring, status and incident communication tool & Flask.
- Experimented with Appium & Jenkins to create Cloud-based Android Device Testing CI Pipeline.

PROJECT

YATE, YET ANOTHER TEXT EDITOR | AUG 2016 - NOV 2016

A lightweight "GUI-like" text editor using Python, that automatically generates ciphertext, message digest and Base64 text files.

- Created a primitive text editor using ncurses(Python) library.
- Cryptographic Algorithms : AES128 Encryption, SHA256 Hashing and Base64 Encoding.

GRAPH.H | FEB 2017 - APRIL 2017

A Graph library for Python in c/c++.

- supports Graph Traversal, does Topological Sort, finds Shortest Path Tree using Dijkstra's algorithm.
- checks for Eulerian Circuit, Hamiltonian Path, SCC using Kosaraju's algorithm.

PASSWORD MANAGER

A personal password manager.

ACHIEVEMENTS & CERTIFICATIONS

2016 3413/58520

2017 Qualified

2016 Qualified

2017 Qualified

2017 Cleared

2016 Cleared R1 & R2

2016 Participated

2016 Grade 'A'

Google Code Jam, Qualification Round

ACM ICPC Indian Regionals

Codechef Snackdown, Pre-Elimination Round

Codechef Snackdown, Pre-Elimination Round

Facebook HackerCup, Qualification Round

Master the Mainframe, IBM

dgplug Summer Training

MITx 6.00.1x Computational Thinking + Python