

Mohammed Saud

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EDUCATION

Pursuing *B. Tech in Information Technology* at **Alliance University**, Bangalore.

Graduation date: June 2020; 8 total semesters

QUALIFICATIONS

- **Programming experience:**
 - Python, C, C++, HTML/CSS/JavaScript, Lua, Go, Java
 - React, Mithril, jQuery, Flask, Django, numpy, OpenGL
 - VCS using Git, Travis CI
 - Proficiency with various Linux utils.
- **Linux experience:**
 - System management (partitioning, managing block devices, storage management)
 - Familiarity with containerization.

EXPERIENCE

Google Summer of Code w/ Freifunk

- Worked on Retroshare (<https://retroshare.cc>), the decentralized & privacy-centered social networking platform as part of the GSoC Program.
- Implemented an alternate Web-based interface from scratch, integrated it inside Retroshare.
- Improved and extended JSON API of Retroshare's GXS service.
- Developed efficient rendering and automatic caching using the Mithril.js framework.

RELEVANT PROJECTS

Cluster Computing Framework

- Created an easy-to-use cluster computing framework for distributed computation of python programs over a LAN-connected network of computers.
- Developed entirely in pure Python without any external dependencies.
- Implemented ability to dynamically add/remove systems to the cluster.

Chip-8 Interpreter

- Created an interpreter for the chip-8 virtual machine based on the Cosmac VIP instruction set.
- Implemented graphical frontend in SDL.

ACHIEVEMENTS AND HOBBIES

- **Hackerupt hackathon:** 1st place for collaborating and developing an educational game using Unity3D for the Xbox Kinect.
- I enjoy tinkering Linux and BSD installs and as a result have a good level of familiarity with *nix systems, from partitioning to customizing window managers to across-the-board tweaks.