SUMIT GHOSH

New Delhi, India · sumit@sumit-ghosh.com · 7585893944 · https://github.com/SkullTech

EDUCATION

Indian Institute of Technology Delhi
Integrated BTech and MTech Computer Science *GPA: 6.8* July 2016 – May 2021

Courses Done

Data Structures and Algorithms, Digital Logic and System Design, Computer Architecture, Programming Languages, Signals and Systems, Discrete Mathematical Structures, Linear Algebra and Differential Equations, Calculus, Design Practices

Will be completed by summer 2019 :: Analysis and Design of Algorithms, Artificial Intelligence, Computer Networks, Introduction to DBMS, Operating Systems, Automata and Theory of Computation, Parallel and Distributed Computing

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WORK EXPERIENCE

Inboxer http://inboxer.io
Lead Developer June 2018 – Present

- B2B email health and reputation management system.
- Responsible for the whole back-end.
- Complete user authentication system ° Integration with DB ° Notification through Email
- Technologies used :: Flask, MySQL, DNS, REST API.

Department of Computer Science and Engineering IIT Delhi
System Administrator September 2017 – Present

- Monitoring and maintaining the computer systems and networks.
- Responding to any support request.
- Technologies used :: Linux, Apache2, Reverse Proxy, VM, DNS, DHCP.

Freelance Consulting
Consultant Developer Jan 2016 – Present

SKILLS

Programming Languages • Proficient:	Python
Programming Languages • Familiar:	Java, C, C++, OCaml, VHDL, ARM Assembly, Go
Back-end Web Development:	Flask, Django
QA Automation:	Selenium, Pytest, unittest
Web-scraping:	Requests, Lxml, Scrapy
Sysadmin and Cloud Practices:	Linux, Docker, Supervisord, AWS, Serverless

PROJECTS

PearSend *Python, Sockets* Open-source on Github

- CLI client for P2P file or message sending.
- Implemented protection against transmission error using CRC32 checksum.

Goodgives *Python, Web scraping* Open-source on Github
CLI tool // web-app for auto entering giveaways in Goodreads. I love books, so why not get free ones!

Journalist *Python, Github API* Open-source on Github

- App to write journal digitally using Markdown in your favorite text-editor.
- Store written journals in a comprehensive directory structure.
- View the journals in browser, rendered in HTML.

TaserTag *Python, Text Analysis* Assistech, IIT Delhi
Tags mathematical expressions in given a text input, eg. a mathematics book. To be used in a TTS system.

deCAD *C++, QT*
Basic CAD tool for converting 2D projections to 3D model and vice-versa

Designing an ARM Processor *VHDL, Xilinx Vivado*
Best practices were implemented, e.g. dividing the CPU into data-path and controller, pipelining, etc.

Compiler Design *Ocaml*
Designing a programming language, complete with its compiler.