

SUMIT GHOSH

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EDUCATION

Indian Institute of Technology Delhi
Integrated BTech and MTech Computer Science

New Delhi
July 2016 – Present

Relevant Courses

Data Structures, System Design and Computer Architecture, Programming Languages, Signals and Systems, Discrete Mathematical Structures, Linear Algebra, Calculus, Design Practices, Analysis and Design of Algorithms, Artificial Intelligence, Computer Networks

WORK EXPERIENCE

Inboxignite

<https://inboxignite.com>

Lead Developer

Jan 2019 – Present

- Domain reputation management system for email marketers.
- Creating SMTP smart-host for routing emails.
- Created email queuing system that sped up bulk-email sending rate over 140 times.
- Created email deliverability // folder placement checker.
- Technologies used :: Python, Flask, Redis, Supervisor, Slimta, AJAX, SMTP, IMAP.

Crypital

<http://www.crypital.co>

Developer

Oct 2018 – Present

- Web-app facilitating user data collection and verification, complete with admin dashboard.
- Technologies used :: Python, Flask, SQLite, UIKit.

Removeads

<https://removeads.org>

Lead Developer

Sep 2018 – Present

- Cloud-based ad blocker backed by a DNS sinkhole.
- Implemented :: Automated VPS provisioning ° User authentication system ° GUI client app.
- Technologies used :: Python, Flask, Pi-Hole, DNS, PyQT.

Inboxer

<http://inboxer.io>

Lead Developer

Jul 2018 – Aug 2018

- Created user authentication system and dashboard, integrated with database.
- Technologies used :: Python, Flask, MySQL, DNS, REST API.

Department of Computer Science and Engineering

IIT Delhi

System Administrator

Sep 2017 – Present

- Maintaining the computer systems and networks, responding to support requests.
- Technologies used :: Linux, Apache2, Reverse Proxy, VM, DNS, DHCP.

Freelance Consulting

Consultant Developer

Jan 2016 – Present

- Automated testing and QA ° Full-stack web development ° Scripting ° Web-scraping

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, Supervisor, AWS, Serverless

PROJECTS

Contribution to Open-source

Open-source on Github

- Projects by user-cont team at RedHat :: Conu and Colin.
- MusicBrainz Picard website
- Mozilla's Webcompat project :: Webcompat issue parser and Autowebcompat.

PearSend Python, Sockets

<https://github.com/SkullTech/Pearsend>

- CLI app for P2P file or message sending, with protection against transmission error using CRC32.

Goodgives Python, Web scraping

<https://github.com/SkullTech/Goodgives>

- CLI // Web app for auto entering giveaways in Goodreads. I love books, so why not get free ones!

Journalist Python, Github API

<https://github.com/SkullTech/Journalist>

- App to write journal using Markdown, store in a comprehensive directory structure, view them in browser rendered in HTML.