# SUMIT GHOSH

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## EDUCATION

**Indian Institute of Technology Delhi**                                   New Delhi
Integrated BTech and MTech in Computer Science                   July 2016 – May 2021

**Notable Courses**
Computer Networks, Artifical Intelligence, Machine Learning, Data Mining, Digital Image Analysis

## CERTIFICATIONS

**AWS Certified Solutions Architect Associate**                              Link
Familiarity with designing cloud infrastructures in AWS.

## WORK EXPERIENCE AS SOFTWARE CONSULTANT

**Evnnt**                                                         https://evnnt.com
*Backend developer and system administrator*                        Feb 2019 – Apr 2019

- An event directory to find events in your area by location, distance, category and more.
- Built and extended robust Scrapy pipeline for scraping events from multiple websites.
- Created high-performance web-app utilising Redis to display live scraping statistics.
- Technologies used :: Django, Flask, Scrapy, Celery, Redis, Supervisord, Postgresql, AWS SES.

**Inboxignite**                                              https://inboxignite.com
*Backend Developer*                                                 Jul 2018 – Jul 2019

- Domain reputation management system for email marketers.
- Created web-app for monitoring DNS records, checking availability of mail servers, and sending emails from those mail servers conveniently.
- 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.
- Created user authentication system and dashboard, integrated with database.
- Technologies used :: Python, Flask, Redis, Supervisord, Slimta, SMTP, IMAP, MySQL, DNS.

**Et Cetera**
Find details about more of my freelancing projects here https://sumit-ghosh.com/portfolio/.

## VOLUNTEERING EXPERIENCE

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

- Implemented an Oauth authentication system to be leveraged by apps within the infrastructure.
- Maintaining the computer systems and networks, responding to support requests.
- Technologies used :: Linux, Apache2, Reverse Proxy, VM, DNS, DHCP.

## 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

**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.

**Drymail** *Python, SMTP*                           https://github.com/SkullTech/Drymail

- Drymail is a minimalist wrapper over Python's existing smtplib and email libraries, designed to be friendly but unrestrictive.

**PearSend** *Python, Sockets*                     https://github.com/SkullTech/Pearsend

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