



Tushar Tripathi

<https://tushartripathi.me>

✉ contact@tushartripathi.me

☎ +91-9506184884  

EDUCATION

BITS Pilani

B.E.(Hons.) in Electrical and Electronics

Courses: Information Retrieval, Computer Architecture, Object Oriented Programming, Network Programming, Neural Networks, Microprocessors, Digital Image Processing, Operating Systems

Pilani, Rajasthan

Aug 2015 – July 2019

EXPERIENCE

Goldman Sachs

Analyst | Java, Python, AngularJS, MongoDB, Prometheus, Jaegar

Bengaluru

June 2019 – Present

- **Encryption:** Enhanced a large scale application to handle sensitive data via encryption and authorization
- **PWA:** Significantly improved speed, lighthouse score and user experience for a webapp using service workers
- **Metrics and Tracing:** Instrumented both black box and white box monitoring for a distributed application
- **Alerting:** Set up automatic alerts for system issues along with Graphana dashboards for quicker debugging
- Designed and worked on several new features for internal applications used across the firm in an agile environment

IDfy

Software Engineering Intern | Ruby, React, Elixir, Tensorflow

Mumbai

January 2019 – June 2019

- **Automated Testing Framework:** Designed and built an end to end generic testing framework to manage validation and testing mastersheets centrally for different types of Machine Learning Algorithms, efficiently run tests against new models, track improvements, view performance history and compare past runs
- **DevOps:** Worked on deployment of dockerized version of the above using Gitlab CI/CD and GCP Kubernetes
- **Liveness Detection:** Worked on an optical flow based ML model to detect liveness from a sequence of shots
- **KYC Gateway:** Worked on design and implementation of payment gateway like application for KYC(know your customer) to ease the integration requirements

Goldman Sachs

Summer Analyst | Java, Angular, MongoDB, Kafka

Bengaluru

May 2018 – July 2018

- **Telemetry Data:** Collation of large volume telemetry flowing in from multiple sources in a centralized system
- **Rules Manager:** Built a website in Angular to write and try out aggregation rules for the collected telemetry
- **Rules Executioner:** Developed the backend architecture for executing rules on tens of thousands of different nodes for the end users to monitor their distributed application effectively

PROJECTS

Adroit Media | Python, Kivy, Javascript, OpenCV



- An installable windows application for media management supporting auto download of subtitle, lyrics etc.
- **Smart Pause:** Play/Pause on screen media based on whether the viewer is looking at the screen or not
- **Telegram Bot:** Integration to use phone to control volume, songs etc. playing on PC and fetch lyrics
- **Offline Prediction:** Predict and add music from downloaded songs to VLC playlist, so the music doesn't stop
- **Microsoft Code.Fun.Do:** Runner up in the hackathon held at BITS Pilani

Document Summarization | Flask, Jinja2

- **LexRank:** Implemented the PageRank inspired algorithm to summarize long documents
- **Frontend:** Developed an end to end UI to summarize user provided articles in preferred number of sentences

Nalanda | Requests, BeautifulSoup



- **BITS Acads:** Auto downloads and keeps course related files, presentation etc. in sync with on device folder

Telnet Chat Server | C, Linux, CLI



- **Interprocess Communication:** Message Queues used for IPC as part of the chat server for telnet based clients

Arduino Python Interface | Python, Arduino



- **Adapter:** A utility to write Arduino like code in Python to control components connected to an Arduino

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, Typescript, Ruby, Elixir, HTML/CSS

Frameworks: Spring, Flask, Ruby on Rails, AngularJs, Angular, React, Gatsby, JUnit

DevOps & SRE: Docker, Kubernetes, Gitlab CI/CD, Netlify, Prometheus, Grafana

Other Tools: Hazelcast, Camunda, Kafka, NumPy, Tensorflow, PostgreSQL, MongoDB, Elasticsearch, HAProxy