



Tushar Tripathi

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EDUCATION

BITS Pilani

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

Pilani, Rajasthan

Aug 2015 – July 2019

EXPERIENCE

Goldman Sachs

Bengaluru

Software Engineer Analyst | *Java, Python, AngularJS, MongoDB, Prometheus, Jaegar* June 2019 – Present

- **Data Security:** Enhanced an internal application to handle sensitive data via authorization and encryption
- **Service Worker:** Integration in an AngularJS Webapp to reduce polling calls, cache UI assets and make PWA
- **Metrics and Tracing:** Instrumented multiple microservices using Micrometer, Prometheus and Jaegar
- **Alerting and Monitoring:** For critical system issues using Prometheus Alert Manager and Grafana Dashboards
- Designed and worked on several new features for internal applications used across the firm

IDfy

Mumbai

Software Engineering Intern | *Python, Ruby, React, Elixir, Tensorflow* 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

Bengaluru

Summer Analyst | *Java, Angular, MongoDB, Kafka* 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*



- **Windows Application:** Media Management tool 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 | *Python, 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 | *Python, 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