

# Adisakshya Chauhan

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## Education

### Bachelor of Technology in Computer Science and Engineering

MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY

Delhi, India

Aug. 2017 - Present

- Current Semester: 7th
- Current CGPA: 9.4/10 (Upto 6th Semester)
- Graduation: Jun 2021

### Senior Secondary

CENTRAL BOARD OF SECONDARY EDUCATION, KENDRIYA VIDYALAYA PACHMARHI

Madhya Pradesh, India

Aug. 2015 - May 2016

- Percentage: 88.4%
- Stream: Science

### High School

CENTRAL BOARD OF SECONDARY EDUCATION, ARMY PUBLIC SCHOOL TEZPUR

Assam, India

Aug. 2013 - May 2014

- CGPA: 9.8/10

## Experience

### Software Development Engineer Intern

TRIVEOUS, BANGALORE INDIA

Remote

May 2020 - Sept. 2020

- Implemented multiple API microservices in Node.js NestJS following event-driven architecture and managed their deployments on AWS ECS.
- Built a scalable notification delivery service using Redis, FCM, AWS SNS, SES and SQS.
- Spin up a cost-effective, automated GitLab Runner setup that scales in/out on demand and also offers the possibility to switch off the entire stack at predefined time intervals to save costs.
- Implemented an image-caching server, to cache all images served by multiple clients and allow on-demand crop, resizing and flipping of images.
- Built a fully automated status-page for multiple services using Atlassian Statuspage, AWS Cloudwatch Events and Lambda.

### Technical Mentor

SOLVE FOUNDATION (INTELLIFY/INDIAN ROAD SAFETY CAMPAIGN), NEW DELHI INDIA

New Delhi, India

Jan. 2020 - Mar. 2020

- Mentored development of online web-portal and mobile application for National Science and Creativity Program (NSCP).
- Assisted the team in the design, implementation and debugging process whenever they felt stuck with something, irrespective whether in the front-end, back-end, APIs, android (mobile) or deployments.
- Managed the complete source-code version-control myself, to take care of all the conflicts and ensure proper merges of fixes, updates and features.
- Came up with an improved development methodology that was adopted by Intellify to smoothen the development-process, making it more efficient and trackable at the same time.
- Setup analytics for tracking and reporting NSCP website traffic that provided in-depth detail about visitors on the website.

### Technical Intern (Python/Web Developer)

INTELLIFY, NEW DELHI INDIA

New Delhi, India

May 2019 - Jul. 2019

- Designed and implemented an user-based collaborative-filtering quiz-recommendation system for online quiz platform of the International Science and Creativity Olympiad (ISCO).
- Implemented REST API using Python for compiling and analysing the results for schools and students for all rounds in ISCO.
- Developed REST APIs, to present the result statistics on dashboards for the web-portal and mobile application.
- Designed and implemented front-end web-pages for Intellify website and exam portal using Bootstrap framework.

### Software Development Engineer Intern

BYTESCARE, NOIDA INDIA

Remote

Mar. 2019 - Aug. 2019

- Automated the process of privacy data collection and take-down procedures for content creators.
- Built a mail-caching, monitoring and processing system as REST API using Node.js, that processes all emails for a take-down request, applying NLP algorithm implemented using Python and Natural Language Toolkit (NLTK).
- The NLP algorithm along with other modules is used to classify the type of response for a take-down request email and monitor the mail conversation for every request.
- The algorithm for language processing is similar to sentiment-analysis but is customized to work with emails and uses a corpus of approximately 1,00,000 formal/informal and positive/negative responses.

## Achievements

Aug 2020	<b>Google IT Automation Professional Certificate</b> , Certified in automating system administration tasks and applying automation at scale by using configuration management and the Cloud using Python.	Online
Jun 2020	<b>AWS Specialization</b> , Certified specialization from AWS on essential and core services, key security concepts, migrations and handling serverless applications.	Online
Mar 2020	<b>100 Percentile</b> , in Computer Science module of AMCAT exam, and according to my score I'm employable for profiles of Software Engineer - IT Services and Product.	New Delhi, India
Jan 2020	<b>First Position</b> , 2018-19 academic session, Maharaja Surajmal Institute of Technology.	New Delhi, India
Sep 2019	<b>First Runner Up</b> , Infosys Digital Makeathon 2.0 Chandigarh DC.	Chandigarh, India
Apr 2019	<b>Elite Certification</b> , Ranked in top 5% toppers in the certification exam for Data Structures and Algorithm using Python by National Programme on Technology Enhanced Learning (NPTEL).	New Delhi, India

## Projects

### Continuous Improvement

ANSIBLE, JENKINS, KUBERNETES, AWS, ELK, KONG, DOCKER, REDIS, NGINX, POSTGRESQL

Summer 2020

- Provisioned an easily manageable infrastructure for event-driven microservices architecture utilizing IaC (Infrastructure as Code).
- Built fully-automated CI/CD pipelines for containerized microservices using Docker, Ansible, and a distributed CI build-server following Jenkins master-agent architecture, deployed on Kubernetes.
- Extended the Kubernetes Ingress API using Kong Ingress Custom Resource to implement gateway level security for securing APIs across the Kubernetes cluster.
- Deployed a centralized logging environment(ELK, Filebeat) which gather log data from docker containers and AWS resources.

### Custom URL Shortner Service

JAVASCRIPT, NODEJS, EXPRESSJS, DOCKER, NGINX, MONGODB, GITHUB ACTIONS

Spring 2020

- A custom URL shortner service implemented as a REST API available as an independent microservice ready to be deployed under a custom short domain name.
- Node.js power the REST API, that serves the request for handling the short URLs and interaction with the database.
- Nginx handles the rewrite rules that take care of the redirection for short URLs.
- Test scripts for the API are written using Jest testing framework, used to perform end-point and unit testing.

### Time Series Analysis

PYTHON, MATPLOTLIB (DATA VISUALIZATION), JUPYTER NOTEBOOK

Fall 2019

- Implemented the powerful Auto Regressive Integrated Moving Average (ARIMA) model, that help understand and predict the behavior of dynamic-systems from experimental or observational data.
- This project explains a given time series based on its own past values, that is, its own lags and the lagged forecast errors, so that equation can be used to forecast future values.
- This project provide forecast on number of air passengers and can be extended to be used for more non-stationary data-sets like economic, weather, stock-price, retail sales, biological systems.

### F.R.I.D.A.Y

PYTHON, NATURAL LANGUAGE PROCESSING, AIML, SPEECH-TO-TEXT, TEXT-TO-SPEECH

Fall 2019

- Inspired from MCU, Female Replacement Intelligent Digital Assistant Youth (F.R.I.D.A.Y) is designed as a personal assistant.
- Capable of performing system-level tasks like reporting system information, memory utilization, performance statistics, send system into hibernate/shutdown/sleep mode, taking screenshots on screen, answer what's near-me queries, provides live weather information on users current location.
- Able to understand text as well as speech inputs.

## Skills

<b>Programming Languages</b>	Python, Javascript, TypeScript, C++, C, JAVA, Assembly
<b>Frameworks</b>	Flask, Django, ExpressJS, NestJS, Electron, Bootstrap
<b>Development Tools</b>	Docker, Nginx, Jenkins, Travis CI, GitLab CI/CD, Ansible, Kubernetes, ELK, Node.js, Redis, Firebase, Scikit-Learn, Tensorflow, OpenCV, GitLab, GitHub, Cachet, Bash, Latex
<b>Version Control</b>	Git
<b>Database</b>	MySQL, PostgreSQL, SQLite, MongoDB, Amazon DynamoDB
<b>Operating Systems</b>	Linux, Windows
<b>Cloud Technologies</b>	AWS, GCP, Heroku
<b>Search Engine Optimization</b>	Google Analytics, Google Search Console, Google Page Speed Insights, Lighthouse
<b>Languages</b>	English, Hindi, French