Adisakshya **Chauhan**

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Publications

Jul 2021	Sharma, B., Bansal, P., Chugh, M., **Chauhan, A.**, Anand, P., Hua, Q., & Jain, A. (2021). Benchmarking geospatial database on Kubernetes cluster. EURASIP Journal on Advances in Signal Processing, 2021(1), 1-29.	*Springer*

Experience

Data Engineer (BTSA)
New Delhi, India

ZS — *Aug 2021 - Present*

- Developing and delivering data warehousing solutions using AWS EMR, Apache Spark for analyzing and interpreting real world data to empower a successful venture.

Software Development Engineer Intern
Bangalor, India (Remote)

TRIVEOUS TECHNOLOGIES PRIVATE LIMITED — *May 2020 - Sept. 2020*

- Implemented multiple event-driven API microservices in Node.js NestJS and managed their deployments on AWS ECS.
- Built a scalable notification delivery system using Redis, FCM, AWS SNS, SES and SQS.
- Spin up a cost-effective, automated GitLab Runner setup on AWS 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 service supporting on-demand crop, resizing and flipping of images while serving.
- Built an automated status-page for multiple services using Atlassian Statuspage, AWS Cloudwatch Events and Lambda.

Technical Mentor
New Delhi, India

SOLVE FOUNDATION (INTELLIFY/INDIAN ROAD SAFETY CAMPAIGN) — *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 processes in all aspects of front-end, back-end, APIs, android or deployments.
- Designed a development methodology to smoothen the development-process of Intellify making it more efficient and trackable.
- Managed the complete source-code version-control for proper code reviews and merges of any fixes, updates and features.
- Setup analytics for tracking and reporting NSCP website traffic that provided in-depth detail about visitors on the website.

Python & Web Developer Intern
New Delhi, India

INTELLIFY, INTERNSHIP — *May 2019 - Jul. 2019*

- Designed and implemented an user-based collaborative-filtering online quiz-recommendation system for The International Science and Creativity Olympiad (ISCO).
- Implemented REST API using Python for compiling, analysing and presenting the results of students and schools for all rounds in ISCO.
- Designed and implemented front-end web-pages for Intellify website and exam portal using Bootstrap framework.

Software Development Engineer Intern
Noida, India (Remote)

BYTESCARE — *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.

Education

Bachelor of Technology in Computer Science and Engineering
New Delhi, India

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY, CGPA: $9.453/10$ — *Aug. 2017 - Jul 2021*

Senior Secondary
Madhya Pradesh, India

CENTRAL BOARD OF SECONDARY EDUCATION, KENDRIYA VIDYALAYA PACHMARHI, PERCENTAGE: 88.4, STREAM: SCIENCE — *Aug. 2015 - May 2016*

High School
Assam, India

CENTRAL BOARD OF SECONDARY EDUCATION, ARMY PUBLIC SCHOOL TEZPUR, CGPA: $9.8/10$ — *Aug. 2013 - May 2014*

Achievements & Certifications

Dec 2021	**Analyzing Big Data with SQL**, certification focusing on architecture & usage of big data distributed SQL engine Apache Hive.	*Online*
Aug 2020	**Google IT Automation Professional Certificate**, Certified in automating system administration tasks and applying automation at scale by using configuration management and the Cloud using Python.	*Online*
Jun 2020	**AWS Specialization,** on essential and core services, key security concepts and handling serverless applications.	*Online*
Mar 2020	**100 Percentile**, 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	**First Position**, 2018-19 academic session, Maharaja Surajmal Institute of Technology.	*New Delhi, India*
Sep 2019	**First Runner Up**, Infosys Digital Makeathon 2.0 Chandigarh DC.	*Chandigarh, India*
Apr 2019	**Elite Certification**, 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, Kubernetes, AWS, Travis, Kong, Docker, NodeJS, Typescript, PostgreSQL   *Summer 2020*

- Highlighted key concepts to scale, synchronize and secure event-driven microservices architecture.
- 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 Travis deploying microservices on Kubernetes.
- Extended the Kubernetes Ingress API using Kong Ingress Custom Resource to implement gateway level security for securing APIs across the Kubernetes cluster.

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.
- Understands text as well as speech inputs.

Skills

Programming Languages	Python, TypeScript, Javascript, C++, C, JAVA, Assembly
Frameworks	Flask, Django, ExpressJS, NestJS, Electron, Bootstrap
Development Tools	Docker, PySpark, Kubernetes, Ansible, Nginx, Jenkins, Travis CI, Node.js, Redis, Firebase, Elasticsearch, Cipher, GraphQL, Scikit-Learn, Tensorflow, OpenCV, Bash, Latex
Version Control	Git
Database	PostgreSQL, Amazon DynamoDB, MySQL, MongoDB, Neo4j
Operating Systems	Linux, Windows
Cloud Technologies	AWS, Heroku, GCP
Search Engine Optimization	Google Analytics, Google Search Console, Google Page Speed Insights, Lighthouse
Languages	English, Hindi, French