



Animesh Singh Chouhan

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EDUCATION

Qualification	University	Institute	Year	CGPA/ %
B.Tech	IIT Kharagpur	IIT Kharagpur	2021	8.40
Intermediate(AISSCE)	CBSE	Delhi Public School, Ranchi	2017	94.6 %
Matriculation(AISSE)	CBSE	Surendranath Centenary School	2015	10.00

SCHOLASTIC ACHIEVEMENTS

- **Letter of Appreciation** from the Principal, SNCS Ranchi for the performance in **class X**
- **Letter of Appreciation** from the Principal, DPS Ranchi for the performance in **class XII**
- Secured an All India Rank of **1456** in **JEE Mains**, 2017 among **1.4 million** candidates
- Secured an All India Rank of **5493** in **JEE Advanced**, 2017 among **0.2 million** candidates
- Awarded **Kishore Vaigyanik Protsahan Yojana (KVPY)** Fellowship by **DST, Government of India**
- Awarded **National Talent Search Examination (NTSE)** Fellowship by the **NCERT, Government of India**
- Awarded **Certification of Merit** in **NSEC** for being placed in State-wise **top 1% out of 494 candidates** by **IAPT**
- Awarded **President of India Silver Medal** for **best performance** in the department at **IIT Kharagpur**

EXPERIENCE

Software Engineer | JPMorgan Chase & Co.

July 2021 - Present

- As a part of **Market Risk Team** worked on the **bux fixes** and **enhancements** for the **Internal Monitoring Dashboard** using **React JS** and **Python**
- Developed a **python script** to **analyze** and **identify long running workers** and send **notifications** via **email** in case of an **anomaly**
- Implemented **POC's** for various **AWS** services like **DynamoDB**, **ALB**, **API Gateway** and **Lambda** using **Terraform** and **Jules pipeline** (based on **Jenkins**)
- Implemented a **serverless backend** using **API Gateway** and **Lambda functions** with **fully-automated deployment** using **Jules**
- **Performance testing** of **AWS Lambda** based **API's** using **Apache JMeter** and **Blazemeter**

Summer Intern | JPMorgan Chase & Co.

June 2020 - July 2020

- Built a webapp to help the **deaf and mute people** communicate using the **Indian Sign Language(ISL)**
- Used **Flask** and **OpenCV** for backend, **React** for frontend and **Tensorflow** for machine learning pipeline

SDE Intern | Trell Experiences Pvt. Ltd.

May 2019 - July 2019

- **Comment Filter and Tagger** [<https://github.com/animesh-chouhan/comment-filter>]
→ Developed a comment filter using **dictionary based filter** to flag profanity, spam and offensive content
→ Used **VADER: A Parsimonious Rule-based Model for Sentiment Analysis** Hutto, C.J. & Gilbert, E.E. (2014) for filtering negative comments and sentiment analysis
- **YouTube Comment Scraper** [<https://github.com/animesh-chouhan/yt-comment-scraper>]
→ Developed a scraper which scrapes **all comments** from **all videos** present on a YouTube channel
→ Used **Puppeteer**, a headless browser to overcome **pagination**, and **ytcomments** comment API

Kharagpur Robosoccer Students Group | IIT Kharagpur

Mar 2018 - June 2018

- **KRSSG** works on building autonomous bots and participating in events like **F.I.R.A. World Championship**
- Built a **PID Demonstrator** using **L293D motor driver** and **Arduino** as a part of the qualification task

PROJECTS

Astria: Intelligent Search Engine for Lawyers and Common people

Mar 2019 – Apr 2019

- Built a **web-based platform** where users can search for relevant cases based on different criteria: Keyword, Acts, Title as well as natural language queries
- **Semantic search** for queries based on natural language using Google's Pre-trained **NLP Model BERT**
- The backend was developed using mainly **Flask** and a database linked to the frontend using **AJAX**
Source Code: <https://github.com/LLRHall/>

Image Processing Term Project

Aug 2018 – Nov 2019

- Implemented the research paper on Single Image Haze Removal Using **Dark Channel Prior**, by Kaiming He, Jian Sun, and Xiaoou Tang, in CVPR 2009 (Oral, Best Paper Award)
- Used **OpenCV** library to estimate the **Transmission** and to obtain **haze-free** images

Cont.

PROJECTS

Kharagpur Winter of Code (KWOC)

- Built a visualizer for **Facebook-archive** which is an **open source project** written in python to help visualize and analyze Facebook's archive data
- Added a feature to enable the users to plot their location history using the Facebook location history data

Source Code: <https://github.com/kaustubhhiware/facebook-archive>

Wordle Solver

- Wrote a python script to solve a popular word game **Wordle** automatically
- Implemented it using **pypeteer** a python port of **puppeteer** chrome browser automation library

Source Code: <https://github.com/animesh-chouhan/wordle-solver>

VCF Creator

- Developed a python package to ease the process of **importing and saving large contact lists** from spreadsheets
- Published the package to **PyPI** and also implemented **CI/CD** using **Travis** and Code Coverage using **CodeCov**
- Successfully implemented the project with the help of fellow batchmates in LLR Hall of Residence

Source Code: <https://github.com/animesh-chouhan/vcf-creator>

VCF Creator Web Interface

- Built a webapp to act as the frontend for **VCF Creator** python package
- Used **Flask** for backend and **Bootstrap** for frontend and deployed it to **Heroku**

Website: <https://vcf-creator.herokuapp.com/>

Youtube Playman

- Wrote a **bash script** which **downloads youtube music playlists** and also **automatically updates** them
- Built With **youtube-dl**: a command-line program to download videos from YouTube

Source Code: <https://github.com/animesh-chouhan/youtube-playman>

C++ Documentation Printer

- A python script to scrape the **C++ documentation** website and generate printable **PDF documents**
- Used **Requests**, **WeasyPrint** and **BeautifulSoup4** packages to write the script

Source Code: <https://github.com/animesh-chouhan/cpp-docs-printer>

My Health Check App

- Built a webapp to detect **heart rates** using a **webcam**
- Used **Flask** and **OpenCV** for backend and deployed it to **Heroku**

Source Code: <https://github.com/animesh-chouhan/myhealthcheck>

TECHNICAL SKILLS AND EXPERTISE

Programming Languages: C, C++, JavaScript, Python, Bash

Platforms: AVR, Arduino, STM32, RasPi, NodeMCU, ESP32

Software Tools/Packages: Git, Flask, Docker, Jupyter Notebook, SolidWorks, Atmel Studio, LTspice

Certifications:

- Control of Mobile Robots (Georgia Tech)
- Introduction to Marketing (University of Pennsylvania)
- NDG Linux Essentials (Cisco Networking Academy)
- Master Performance Testing (Blazemeter University)
- AWS Certified Cloud Practitioner (Amazon AWS)

EXTRACURRICULAR ACTIVITIES

Case Studies:

- **Second runner-up** in the **Uber Scale It Case Challenge** organized by **Entrepreneurship Cell, IIT Kharagpur**
- Analyzed the Furniture Industry in **Indian Case Challenge 2019** organized by **Business Club, IIT Kharagpur**
- **Bronze medal** in **Open IIT Case Study 2018** organized by **Technology Students Gymkhana, IIT Kharagpur**
- **Silver medal** in **General Championship Case Study 2019** organized by **Technology Students Gymkhana, IIT Kharagpur**
- **Bronze medal** in **General Championship OpenSoft 2019** organized by **Technology Students Gymkhana, IIT Kharagpur**