



Animesh Singh Chouhan

Ocean Engineering and Naval Architecture

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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
<ul style="list-style-type: none">• Started out as a Software Engineer	
Summer Intern JPMorgan Chase & Co.	June 2020 - July 2020
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Comment Filter and Tagger [https://github.com/animesh-chouhan/comment-filter]<ul style="list-style-type: none">→ 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]<ul style="list-style-type: none">→ Developed a scraper which scrapes all comments from all videos present in 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
<ul style="list-style-type: none">• 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	
Team KART IIT Kharagpur	Sept 2017 - Jan 2018
<ul style="list-style-type: none">• As a trainee at Team KART, I worked on the electronics subsection and studied the uses and working principles of various sensors present in an automobile	
Winter Workshop IIT Kharagpur	Nov 2017 - Dec 2017
<ul style="list-style-type: none">• Completed Autonomous Robotics workshop (IEEE Certified) organised by Technology Robotix Society• Designed and built an IoT enabled bluetooth controlled colour detection bot using Arduino and ESP8266	

PROJECTS

Astria: Intelligent Search Engine for Lawyers and Common people	Mar 2019 – Apr 2019
<ul style="list-style-type: none">• 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/Astria	
Image Processing Term Project	Aug 2018 – Nov 2019
<ul style="list-style-type: none">• 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.	
Kharagpur Winter of Code(KWoC)	
<ul style="list-style-type: none">• 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	

PROJECTS

Wordle Solver

- Wrote a python script to solve a popular word game **Wordle** automatically
- Implemented it using **pyppeteer** a python port of **puppeteer** chrome browser automation library
Source Code: <https://github.com/animesh-chouhan/wordle-solver>

VCF Creator

- Wrote 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

Online Courses: Control of Mobile Robots (Georgia Tech), Introduction to Marketing (University of Pennsylvania)

Courses: Image Processing, Design and Analysis of Algorithms, Thermodynamics, Economics, Hydrostatics and Stability

EXTRACURRICULAR ACTIVITIES

National Service Scheme(NSS)

- Volunteered in the annual winter camp (2017) alongside 500 volunteers.
- Co-oriented with a team of 27 responsible for construction and repair of village roads.
- Conducted monthly surveys about healthcare and financial condition in the village.
- As an active volunteer of the IIT Kharagpur Wing of the NSS, our team has been working diligently to improve the lives of villagers in Kharagpur.

Case Studies

- **Second runner-ups** 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**