

AYUL JAIN

Software Engineer

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🌐 LinkedIn

🐙 Github

WORK EXPERIENCE

SEP Software Engineer-1

J.P. Morgan Chase and Co

📅 July 2021 - current

📍 Bengaluru, Karnataka

- Working on big data and in this process developing a single use Rest Endpoint to search any complex query on the data domains stored in elastic clusters ,hence utilising efficiency and fast response of Elastic Search
- Worked on integration testing of the APIs through an in- house developed tool.Followed CI/CD development process to trigger the testing scripts from Jenkins in house wrapper Jules
- Worked on Platform as a Service (PAAS) Internal Private Cloud Service Model.

Software Developer Intern

Samsung R&D Institute,Noida

📅 May 2020 - June 2020

📍 Noida,Uttar Pradesh

- Extracted useful information from Raw WAV files such as Tempo, note (equivalent to a piano key), loudness, time signature information with help of techniques such as FFT (Fast Fourier Transform).
- Built a Java application (Gradle build) to obtain and convert these information points into a Musical Instrument Digital Interface (MIDI) file

PROJECTS

Multilingual Speech Recognition

Bachelor's Thesis Project, Guide: Prof. Rohit Sinha, EEE Department, IIT Guwahati

📅 Sept 2020 - April 2021

- Developed an End to End CTC Model for 6 Indian Languages namely Hindi ,Gujarati, Tamil, Telugu, Marathi and Oriya
- Being low resource languages and a huge difference in terms of data available, trained the model in a manner that does not lean towards any particular language
- Achieved WER(Word Error Rate) as low as 40% in some languages.
- Improvements - WER can be decreased further by training more and using Language Model(LM) to learn the words directly.Attention based model can also be used

CAREER OBJECTIVE

Young Software Engineer with a vision to develop and contribute in life changing algorithms build in well written software that would make everyone's life easier.I want to grow and learn everyday ,implement what I learn and help others as well in this journey.

EDUCATION

B.Tech

Electronics and Communication Engineering

Indian Institute of Technology Guwahati

📅 July 2017 - July 2021

📍 Guwahati,Assam

🎓 CGPA: 7.55

RELEVANT COURSES

Introduction to Computing (Theory +Lab)

Algorithmic Toolbox (Coursera) Communication

Networks Probability and Random Process

Linear Algebra

SKILLS

Java

C++ C


SQL

CI/CD

HTML

Image Encryption

Self Project

-  Sept 2020 - March 2021
- Developed an application in MATLAB to store important images in secured form by encrypting them to visually meaningful images using advanced encryption techniques (based on a research paper)

ACHIEVEMENTS

JEE Main Examination 2017:

Secured All India Rank of 945 among
1.2 million candidates

JEE Entrance Examination 2017:

Secured All India Rank of 1445 among
0.15 million candidates