

Amritanshu Jain

BITS Pilani, Pilani Campus, Rajasthan(India)

☎ (+91) 99-5310-8361 | ✉ jainamritanshu@gmail.com | 📱 jainamritanshu | 🌐 amritanshu-jain-b78371120

Education

BITS Pilani(Birla Institute of Technology and Science)

BACHELOR OF ENGINEERING (HONS.) IN MANUFACTURING ENGINEERING

Rajasthan, India

Aug. 2015 - PRESENT

Experience

Department of Visual Media, BITS Pilani

SENIOR BACKEND DEVELOPER

Pilani, India

Aug. 2015 - PRESENT

- Implemented a registration software on Django and ReactJS for over 5000 participants attending our college fest.
- Implemented an event management system software on Django and ReactJS for over 5000 participants and over 30 events in our college fest.
- Made a fully working E-commerce website for the college used as an online merchandise store and concert ticket store(during the fests).

CabMe

SENIOR BACKEND DEVELOPER AT CABME

Pilani, India

Sep. 2016 - Present

- Dealing with the backend services of the startup CabMe.
- Built a cab booking portal on Django for normal customers as well as a corporate portal where the people from different companies can avail the cab booking services according to our policy with their respective company.

Information Security Workshop

TEACHER AT ETHICAL HACKING AND INFORMATION SECURITY WORKSHOP

Pilani, India

Feb. 2016

- Gave over 20+ hours of lectures to over 70+ students in the workshop conducted in APOGEE-2016(Technical fest of BITS Pilani) .
- Taught about different encryptions like DES, SHA-1, HMAC and their implementations in various fields of Information security.
- Made the students familiar with Kali and different tools like John the ripper, aircrack-ng, metasploit, nmap etc.
- Practically show them different types of attacks and vulnerabilities in web applications.
- Practically show them network vulnerable attacks like man in the middle and DDoS for a small botnet.

Full Stack Web Development

TEACHER AT CSD FULL STACK WEB DEVELOPMENT COURSE

Pilani, India

February 2017 - PRESENT

- Teaching a bunch of undergraduates of BITS Pilani under the Centre for Software Development BITS Pilani.
- Focusing on core concepts of Javascript and servers.
- Focused on MERN Stack for development and docker for deployments.

InvestU

SENIOR BACKEND DEVELOPER

Pilani, India

May. 2016 - PRESENT

- Worked on the backend services for a pre-funding Fintech Startup.
- The initial version of the product was built on Python/Django for beta-testing.
- Scraping Mutual Funds ticker data into MySQL DB and manipulating the data to make frequency and user fund graphs separately.
- Implemented a cart-parser for mutual funds and one-stop payment.

Projects

Fuzzy Bill Parser

SKILLS IMPLEMENTED - PYTHON ,IMAGE PROCESSING, LEVENSHTAIN DISTANCE

Pilani, India

Sep. 2016 - Nov. 2016

- Pre-processed the image using ImageMick.
- Used Fuzzy Inference System(FIS) to implement edge detection system and parse the data from an image,OpenCV and tesseract were used to parse the text.
- Compares the data with a yaml object to extract the desired data.
- Implementation of Levenshtein distance and DiffLib(Python library) were used to compare the strings and return the accuracy.
- Github link for the project: <https://github.com/jainamritanshu/bill-parser>

Oasis Store

Pilani, India

SKILLS IMPLEMENTED - PYTHON ,DJANGO , REDIS DB, DJANGO CACHE AND SESSIONS HANDLING, MYSQL, AJAX,

Sep. 2016 - Oct. 2016

OAUTH

- Built a simple UI for display of products on the E-store.
- The crux of the store was in the cart. Used Django sessions and cache and Django-redis-cache DB to map a unique customer product relationship used for the cart. Used UUID to generate a unique ID for every valid user session(both anonymous and logged in) to reduce the chances of clashing of unique ID. Every session held a unique key which was the key to the main cache(viz. the products the customer adds to the cart). User can enter his/her email address or choose the social login option in order to avoid the process of registration. An automated mail with a receipt will be sent to the customer.
- For Dynamic cart, considering the UX ajax was used for the requests that cart handled
- A payment portal was built with API integration with our payment sponsor Instamojo. The customer can use that payment portal for the payment of the products he has checked out with.
- Website: <http://bits-oasis.org/2016/shop/>
- Github link for the project: <https://github.com/dvm-bitspilani/oasis-2016/tree/master/shop>

Chat Room

Pilani, India

SKILLS IMPLEMENTED - PYTHON ,TORNAPOPY, WEB SOCKET PROGRAMMING

Nov. 2016

- Built a simple chat room where users can join a particular chat room by entering the room's unique name and their nickname.
- UUID was used to assign unique ID to every user. Sockets were programmed using tornado(library of python) to transfer the text data.
- Github link for the project: <https://github.com/jainamritanshu/chat-room>

Latch

Pilani, India

SKILLS IMPLEMENTED - PYTHON, NLP, NODE.JS, DJANGO, ANGULAR.JS ,OAUTH

Feb, 2017

- Built a cross-platform location based chat application where you can set your interests and the application will join you in the groups based on your location and interests.
- There is also a simple chat bot at your convenience for hotel booking and getting restaurants nearby. So you will never be alone on this application.
- You can also find individual people around you on a map built in the application and have a talk with them.
- You can follow the project here <https://test.investu.in/>

CabMe

Pilani, India

SKILLS IMPLEMENTED - PYTHON/DJANGO, HTML/CSS, JS

Sep 2016 - Feb 2017

- Built a cab booking portal. A user can book an independent cab, share a cab, self-drive as well as post a cab. Vendor application was integrated so as the vendors can post the cabs.
- Also made a referral system where people would get money in their virtual wallet by registering and inviting people with their unique referral code.
- A lot of API integrations to support flight booking, E-Commerce, hotel booking etc.

RegSoft

Pilani, India

SKILLS IMPLEMENTED - PYTHON ,DJANGO, MATERIALIZE, REACTJS

Sep. 2016 - Oct. 2016

- Built a registration software which behaved as a pipeline for the participants and eased the process of verification of the participant and accommodation of the participant attending the fest.
- An automated mail was sent to the registered participant with a barcode which he/she had to carry and the barcode was scanned to verify the identity of the participant. He/She could pay online as well as in cash and after the verification process was completed the participant can get himself/herself accommodated through the software only.
- Github link for the project: <https://github.com/dvm-bitspilani/oasis-2016/tree/master/regsoft>

Event Management System

Pilani, India

SKILLS IMPLEMENTED - PYTHON ,DJANGO, MATERIALIZE, REACTJS

Sep. 2016 - Oct. 2016

- Built an event management system which could help maintain transparency of the event and record scores for each participant/team with ease.
- The participant would be asked to scan the barcode to verify his unique ID number. He/She would be judged by the judges using the judge sheet which maintained the record of the scores of different teams hence maintaining the transparency of the event. It even eased the process for the judges to keep record of their scores
- Github link for the project: <https://github.com/dvm-bitspilani/oasis-2016/tree/master/ems>

Skill Set

Python

skill

PROFICIENT

level

- Comfortable using scientific computing in python like numpy, pandas to pre-process the raw data and apply to scikit-learn to train and predict data using algorithms such as Naive-Bayes, Support Vector Machines etc.
- Skilled enough to make web-crawlers, scraping packets to scrape data and parsing it using scrapy and bs4 in python.
- Web Socket programming in tornadopy servers.
- Very sound knowledge of Django(Python framework for backend services) with a lot of experience in it. Also comfortable with selenium in python for automation or testing purposes.

JavaScript

skill

PROFICIENT

level

- Comfortable in developing both server-side and client-side services of an application in JavaScript.
- Proficient in server-side development using node js, express and passportjs. Experience of developing the backend services of a FinTech startup.
- Socket programming to make real time applications
- Intermediate knowledge of client-side development using ReactJS and Redux.

Git/Github

skill

PROFICIENT

level

- Comfortable in setting up hooks with multiple branches on servers and git repo.

Neural Networks

skill

INTERMEDIATE

level

- Well versed with the working of neural networks and its multiple layers.
- Considerable amount of experience to use regularisation/cross-validation in various scenarios. Have implemented several neural network models using keras(Deep learning library for python).

Natural Language Processing

skill

INTERMEDIATE

level

- Comfortable in developing an intent parser and processing entities. Built a basic bot framework to do the same using spaCy(NLP library in python)
- Comfortable in using NLTK and working with part of speech tagging.

MySQL DB

skill

PROFICIENT

level

- Have a considerable amount of experience in working with sql DB using some key features like indexing and RDBMS while developing backend services for web applications.

Mongo DB

skill

INTERMEDIATE

level

- Have a considerable amount of experience in working with Mongo DB with Mongoose while developing backend services in node js.
- Have used PyMongo several times for saving scraped data for further manipulation etc.

Java/C++

skill

INTERMEDIATE

level

- Sound knowledge of concepts of OOP in Java, C++ as well as Python.
- Having a considerable amount of experience in implementation of key concepts of Java such as multithreading and developing GUI for intermediate applications in java.

HTML5/CSS3

skill

INTERMEDIATE

level

- Comfortable in designing and developing with clean UI with a good enough UX for applications.
- Having a considerable amount of experience in developing applications using HTML5 and bootstrap or materialize.

Awards & Achievements

KVPY SCHOLAR

2014 **Scholar**, Kishore Vaigyanik Protsahan Yojana(English: Young Scientist Incentive Plan) (KVPY) is a scholarship program funded by the Department of Science and Technology of the Government of India. Got a rank under 900 out of 1,00,000 students giving the exam. Was awarded KVPY fellowship. *Delhi, India*

MATHS OLYMPIAD

2007-13 **Medalist**, 4 times gold medalist in IMO on school level and got qualified for nationals, got a state rank of 55. 2 silver medals and a bronze medal in IMO *Delhi, India*

SCIENCE OLYMPIAD

2007-13 **Medalist**, 1 time gold medalist in ISO on school level and got qualified for nationals, got a state rank of 39. city rank of 4, 3 silver medals in ISO *Delhi, India*

CYBER OLYMPIAD

2007-13 **Medalist**, 2 times gold medalist in NCO on school level and got qualified for nationals. Got a national rank of 17 in 2010. 2 bronze medals in ISO *Delhi, India*

JEE MAINS

2015 **99.25 percentile**, amongst 15,00,000 students who competed for admission in best technical colleges of India *Delhi, India*

IPU-CET

2015 **291 rank**, amongst 2,00,000 students who competed for admission in best technical colleges of India *Delhi, India*

MATH-E-MAGICIAN

2012 **3rd rank**, amongst top schools of Delhi who competed for the maths quiz *Delhi, India*

BUDDING SCIENTIST

2011 **3rd rank**, amongst top schools of Delhi who competed for the competition. We made a working model to save electricity through street lights. *Delhi, India*

PROBLEM SOLVING ASSESSMENT

2014 **99.7070 percentile**, amongst 25,00,000 students who were appearing for 12th standard examination. *Delhi, India*