AMRATANSHU SHRIVASTAVA

Computer Science Senior at BITS Pilani

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📍 Mumbai, India

EXPERIENCE

ServiceNow IDC, Hyderabad

Software Development Intern

📅 05/2020 - 06/2020   📍 Hyderabad

Platform Engineering - IntegrationHub

- Developed Social Media Analytics tools for Instagram and Youtube aimed at SMBs
- Automated several tasks for SMBs using ServiceNow platform to expand and track their businesses using Facebook Graph API and Youtube API
- Proposed automated commenting post sentiment analysis for Youtube channels
- The final product is expected to roll out on the Citizen Developer Studio by late 2020
- RhinoJS, Instagram/Facebook Graph API, Youtube API, ServiceNow
- Offered FTE (Full Time Employee) role at IDC, Hyderabad

PGS Energy Services

Energy Auditor/Software Development intern

📅 05/2018 - 07/2018   📍 Ahmedabad, India

Automator tool

- Made a web app to automate the process of report making for Energy Audit firms from scratch
- Automated filling of tables in a word file on the basis of certain triggers from hugely populated Excel sheets
- Google Docs/Sheets API, Python, HTML, CSS, ReactJS

SKILLS

C++	C	JavaScript	REST API	HTML/CSS
Python	MATLAB	SQL	MongoDB	GraphQL
NodeJS	ReactJS	Prolog	Verilog	Assembly

SELF PROJECTS

Search Engine using Vector Space IR Model

📍 BITS Pilani

🔗 https://github.com/amratanshu/Ranked-Retrieval-using-Vector-Space-Model

- Document Search Engine - Ranked based Retrieval using Vector Space Model
- Preprocessing - stemming, lemmatisation
- lnc.ltc scoring scheme / Python
- Modelled using various restriction techniques and compared the results

Compiler in C

📍 BITS Pilani

🔗 https://github.com/amratanshu/Toy-Compiler

- Built a compiler from scratch in C for a custom language (set of syntax grammar rules)
- Phase 1 - Lexer and Parser
- Phase 2 - Abstract Syntax Tree Generator
- Phase 3 - Semantic Analyser and Type Checker
- Phase 4 - Final conversion to Machine Code (Assembly Language)

File uploader using Socket Programming

📍 BITS Pilani

🔗 https://github.com/amratanshu/Multi-Channel-Stop-and-Wait-Protocol

- Implemented multi-channel-stop-and-wait protocol to upload a File (ordered TCP Packets) from Client to Server
- Used C library functions like select() to choose b/w multiple channels
- Experimented with different packet drop rates and ensured the packets are delivered in order irrespective of it

EDUCATION

B.E Computer Science
BITS Pilani, Pilani Campus
📅 2017 - 2021

- **Important Coursework -**
- Data Structures and Algorithms
- Object Oriented Programming
- Database Systems
- Computer Networking
- Operating Systems
- Theory of Computation
- Compiler Construction
- Image Processing
- Information Retrieval

GPA
7.15 / 10.0

Delhi Public School
Bopal, Ahmedabad
📅 2015 - 2017

- CBSE - Class XII Board (PCM with Computer Sci.)

%
95.6 / 100

SR International School
Bareilly, Uttar Pradesh
📅 2015

- CBSE - Class X Board

GPA
10.0 / 10.0

COMPETITIONS

💎 Microsoft CodeFunDo++, 2019

* Final Round Participants (Team of 3)
* Created a Decentralized Voting system using blockchain
* Issuance of digital Voter ID using uPort app Signatures
* Implemented 2 Factor Authentication
* Deployed the backend and frontend on Azure Blockchain
* Used solidity to write smart contracts for transactions

SELF PROJECTS

Spirit Level Tester using Assembly Language
📍 BITS Pilani

- Built a system used for testing the sobriety of a person
- The user has to re-enter the flashing numbers on the hex display correctly under the given time slot
- After 3 failed attempts, a buzzer goes off
- Simulated in Proteus, coded the components in Assembly Language

Logic implementation of IPC (Indian Penal Code)
📍 BITS Pilani

- Implemented a few chapters from the Indian Penal Code using the imply-logic in the language PROLOG
- Used to determine whether a person is guilty based on the input clauses

POSITIONS OF RESPONSIBILITY

Marketing Associate at TEDxBITS Pilani
Co-led a team of 6 members in the Sponsorship Team and brought in cash/in-kind sponsorship from brands like Harvard Business Review (HBR), Yes Bank, Brew House, Bisleri and Ixigo etc.

Photography Club, BITS Pilani
Senior Member