UTKARSH TIWARI

Course : **B.E. (Hons.)**, Computer Science and **M.Sc. (Hons.)**, Biological Science, 2024

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CGPA : 8.01

ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Computer Science	Dr. Virendra Swarup Education Center	ICSE	93.4 %	2018
CLASS X	Computer Application	Dr. Virendra Swarup Education Center	ICSE	95.83 %	2016

Subjects / Electives	Cryptography, Operating Systems, Data Structure and Algorithms, Design and Analysis of Algorithms, Discrete Structures for Computer Science, Database Systems, Computer Architecture, Object Oriented Programming (OOPs), Blockchain
Technical Proficiency	Git, Docker, SQL, C++, CakePHP, Java, HTML + CSS, JavaScript, Node.js

SUMMER INTERNSHIP / WORK EXPERIENCE

Softare Development Intern, Amazon Development Centrer India Pvt Ltd　　　　　　　　**Jul 2023 - Present**
- Actively contribute to software development project for Retail Business Services Tech Team, specializing in coding, testing, and debugging, to elevate retail software applications and enhance user experience.
- Developing a feature that allows clients to effortlessly transmit large volumes of data, facilitated through the utilization of AWS Lambdas and S3, with Java as the primary programming language for implementation.
- Project - Handling Large Execution Data

Student Developer, GOOGLE SUMMER OF CODE 2022, CDLI　　　　　　　　**Jun 2022 - Sep 2022**
- Project - Design Challenge I
- Worked as a Student Developer with the open-source organization, CDLI, to create a more user-centric view, improve the overall design and accessibility, and implement new features
- Tech Stack- HTML, CSS, JavaScript, PHP, CakePHP, Docker

Summer Intern, Msys technologies　　　　　　　　**May 2021 - Jul 2021**
- Project - GitBoard (A tool for monitoring multiple git repositories)
- Worked as a back-end development intern on web application project, using NodeJS and ExpressJS to visualize data stored in MongoDB.
- Designed and implemented different API's using GitHub API

PROJECTS

Paragraph Retrieval System - Information Retrieval　　　　　　　　**Jan 2023 - May 2023**
- Developed a Command Line Tool for retrieving paragraphs and filenames based on user queries, including words, phrases, or wildcards..
- Used stemming and stopword removal and generated an inverted index for all the unique words in the dataset.
- Implemented spell check and auto-correction to provide better results to the query entered by the user.

Secure and Efficient Data Deduplication Framework for IOT and Fog Computing - Computer Architecture　　**Jan 2023 - May 2023**
- Seamless and efficient data transfer was achieved by establishing WiFi connections between the IoT, Fog, and Cloud devices.
- Fine-grained access control was achieved through user-level key management and updating procedures, ensuring secure administration of outsourced data using public-private key pairs for data encryption.
- Tech Stack: Python, Cryptography, SHA-256.

Phonebook Management System - Computer Science　　　　　　　　**Jan 2022 - Mar 2022**
- Developed a CLI Application which allows the users to manage or search contacts in their Phonebook.
- Implemented the project using various data structures such as Doubly Linked-List, Trie and Concepts of OOPS.

Car Parking Management System - Web Development　　　　　　　　**Oct 2021 - Nov 2021**
- Developed a Web App which allows the users to book a parking slot for their vehicle at various locations
- Designed the UI of the app along with implementation of various APIs
- Tech Stack - AngularJS, Java, SpringBoot.

POSITION OF RESPONSIBILITY

Technical Team Head - BITS Embryo　　　　　　　　**Jun 2021 - Jun 2022**
- Led a team of 15 members out of a total of 60 to host intellectuals from many fields, including Ms. Kiran Bedi.
- Managed the technical aspects of all the events and often hosted some enthralling panel discussions.