

Utkarsh Tiwari

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EDUCATION

Birla Institute of Technology and Science, Pilani

B.E. COMPUTER SCIENCE WITH M.Sc. BIOLOGICAL SCIENCE

Hyderabad, Telangana | Aug 2019 - Aug 2024

Current CGPA : 8.40

Relevant CourseWork: Data Structure and Algorithms, Design and Analysis of Algorithms, Database Systems, Object Oriented Programming (OOPs), Cryptography, Operating Systems, Blockchain

WORK EXPERIENCE

COHESITY | ENGINEERING INTERN

Pune, Maharashtra | Feb 2024 – Jun 2024

- Implemented the Client in golang for the Distributed File System developed by Cohesity using **gRPC** for secure data transfer.
- Implemented multiple **REST APIs**, which included dealing with the serialization of data being passed from the request to the internal server.

AMAZON | SOFTWARE DEVELOPMENT ENGINEER INTERN

Bengaluru, Karnataka | Jul 2023 – Dec 2023

- Led the development and implementation of a high-impact feature, streamlining the handling of **large data quantities** on the **internal orchestration engine**; employed **AWS CDK** to create essential resources, establish seamless connections with downstream services, optimize data for a better user experience, and meticulously tested the feature's performance using **unit tests**.
- Enhanced metric logging & tracing of data for various services where the feature was enabled using **AWS Cloudwatch, SL4J library**. This improved resolution and improvement of tickets.
- Developed comprehensive **UML diagrams** and meticulously documented feature implementation, resulting in a **40%** reduction in bug fixes and facilitating seamless collaboration among cross-functional teams.

GOOGLE SUMMER OF CODE 2022 AT CDLI | STUDENT DEVELOPER

Remote | Jun 2022 - Sept 2022

- Spearheaded the creation of a **user-centric, space-efficient** view for website elements, resulting in enhanced usability of forms, search page UI, and artifacts; led to a **35%** improvement in **website navigation** and increased average **session duration** by **20%** for the open-source project - **Design Challenge I** and introduced new features (Citation, Raw image scan, Resources dropdown) while maximizing website responsiveness using **Bootstrap**.

MSYS TECHNOLOGIES | SOFTWARE ENGINEER INTERN

Chennai, India | Jun 2021 – Jul 2021

- Engineered the backend infrastructure for **GitBoard**, a web application project, utilizing **NodeJS** and **ExpressJS**; integrated **MongoDB** to store and retrieve data, designed and executed **REST APIs** leveraging the **GitHub APIs**, resulting in better data visualization and augmented monitoring features for multiple git repositories.

PROJECTS

PHONEBOOK MANAGEMENT SYSTEM

Implemented a CLI application using **OOPS** concepts and data structures like **Doubly Linked-List** and **Trie**, enabling users to seamlessly manage and search contacts in their Phonebook, resulting in streamlined contact organization and improved efficiency.

SECURE AND EFFICIENT DATA DEDUPLICATION FRAMEWORK FOR IOT AND FOG COMPUTING

COMPUTER ARCHITECTURE, PYTHON, CRYPTOGRAPHY, SHA-256

Achieved secure administration of outsourced data by implementing fine-grained access control through **user-level key management** and updating procedures. Utilized **public-private key pairs** for data encryption, ensuring data confidentiality and integrity.

SKILLS

Languages: Java, Git, SQL, C++, Python, PHP

Web Development: React, JavaScript, TypeScript, HTML/CSS

Technology: Git, AWS, Docker, LaTeX, MongoDB, DynamoDB, JUnit, Mockito, Dagger