SOWMYA IYER

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EDUCATION

UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK　　　　　　　　08/2022-Present
Master of Science, Computer Science Engineering
VIDYALANKAR INSTITUTE OF TECHNOLOGY, UNIVERSITY OF MUMBAI　　　　　08/2016-11/2020
Bachelor of Engineering, Information Technology　　　　　　　　　　　　　　　*GPA: 8.05/10*

WORK EXPERIENCE

TATARI | *Software Engineer Intern*　　　　　　　　　　　　　　　　　　　05/2023-Present
- Developed robust data ingestion pipelines using Airflow DAGs to process and load television data from AWS S3 into the system on a weekly basis, ensuring efficient processing for up-to-date and accurate information.
- Implemented automation of the email workflow for ad buyers by developing and deploying Python scripts, integrating with relevant APIs, and leveraging email scheduling techniques, resulting in a 50% reduction in manual effort.
- Utilized advanced SQL queries and data transformation techniques to efficiently extract and process over 10,000 rows of television data daily from the redshift data warehouse, ensuring optimal performance and accuracy.
- Orchestrated seamless data migrations from the data warehouse to Metabase, successfully transferring and transforming 100 GB of data, enabling the data analytics team to generate comprehensive charts and dashboards for in-depth analysis and valuable business insights.

NEEBAL TECHNOLOGIES PVT. LTD. | *Associate Software Engineer*　　　　　　07/2020-07/2022
- Restructured the existing banking application to incorporate additional functionality and seamlessly merged it with the native application (Android and iOS) using Flutter framework.
- Developed iOS applications using Objective C, XCode Interface Builder, Cocoa Touch, and also worked on Protocols, delegates, Core Data, UIKit, collections.
- Integrated Web Services using Alamofire in Swift to GET or POST the request, implemented generic SSO, crashlytics and push notifications using APNS and Firebase.
- Designed, implemented and tested Flutter and Dart code using BLoC pattern for android and iOS applications.
- Executed lazy loading in applications, thereby reducing the page weight and allowing a quicker page load time.
- Coded and debugged cross platform mobile applications to meet provided user requirements and to address identified defects.

LIONINE TECHNOLOGIES PVT. LTD. | *IT Intern (web developer)*　　　　　　04/2018-05/2018
- Devised and developed web application using javascript frameworks Express.js and Angular.js to increase target audience engagement by 11%.
- Developed object oriented code in Node.js and built API's following RESTful standards to allow users to submit information by storing data in MongoDB.

PROJECTS

LIMITED EDITION COLLECTIBLE NFT *[React, Node.js, Ethererum, Web3.js, Smart Contracts, MySQL, Git]*
- Developed a secure and transparent blockchain-based marketplace using React.js for the frontend and Node.js for the backend. Leveraged React.js to create intuitive user interfaces, ensuring a seamless user experience, while Node.js handled server-side logic, database integration, and API interactions.
- Implemented limited edition collectible Non-Fungible Tokens (NFTs) verified on the Ethereum blockchain. Utilized smart contract functionality written in Solidity to create and verify NFT ownership, ensuring secure ownership transfer and potential revenue streams for artists and collectors within the marketplace.

ATTENDANCE MANAGEMENT SYSTEM *[Javascript, Node.js, Angular.js, SQL, Bootstrap]*
- Built a student attendance management system that tracks the student attendance and generates a consolidated report at the end of the term and maintains students' report cards and personal data.
- Technologies used: Javascript Web framework Angular.js for front end, SQL Database and Node.js for backend.

TECHNICAL SKILLS

Programming languages : Python, SQL, Java, Dart, Swift, Objective-C, Javascript, C, C++
Mobile App Development: Android, iOS, Flutter integration with native platforms
Frameworks: Airflow, AWS S3, Flask, React.js, Flutter, Angular.js, Express.js, Cocoa Touch, Core Data, Core Animation
Development Tools: PyCharm, Github, XCode, Android Studio, Visual Studio Code
Databases: Relational database (RDBMS), PostgreSQL, MongoDB, SQL server, Oracle
Operating Systems and Office Applications: Linux, Windows 10/11, MacOS, Outlook, Word, Excel, PowerPoint

ACHIEVEMENTS & VOLUNTEERING

- Secured **1st Position** in Protech-2020, which was a project-based competition held at Symbiosis Institute of Technology, Pune, India.
- Presented a technical paper on 'Automated Irrigation and Crop Prediction', which was selected for presentation at the 4th International Conference on Advances in Science and Technology (ICAST-2021). It has since been published in the international journal, 'SSRN – **Elsevier**'.
- Volunteered as a Team Lead at U&I Trust, leading a team of 18 volunteers. Organized fundraisers and collaborated with the curriculum content team to design classes for the holistic development of underprivileged children in underdeveloped parts of Mumbai, India. Mentored and taught English and Math to make a positive impact on their lives.