

Sowmya Iyer

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Education

University at Buffalo, The State University of New York

Master of Science, Computer Science Engineering

University of Mumbai

Bachelor of Engineering, Information Technology

Buffalo, New York

Aug 2023 - Present

Mumbai, India

Aug 2016 - Oct 2020

Skills

Programming Languages: Python, SQL, Java, Dart, Swift, JavaScript, TypeScript, C, C++, Solidity

Frameworks: Airflow, AWS S3, Flask, React.js, Flutter, Node.js, Angular.js, REST API, Express.js, Flutter

Development Tools: PyCharm, GitHub, XCode, Android Studio, Visual Studio Code

Databases: Relational database (RDBMS), PostgreSQL, MySQL, MongoDB, Oracle PL/SQL

Operating Systems and other Tools: Linux, Windows, MacOS, Confluence, Microsoft Office Suite

Soft Skills: Leadership, problem-solving, cross-functional teamwork, communication, agile methodologies

Work Experience

Software Engineer Intern | Tatari | New York City, New York

May 2023 - Present

- Engineered a Python script in Flask framework to trigger automated emails to media buyers when programmatic bookings are completed or updated, reducing wait time for media buyers by an average of 30 minutes.
- Introduced creative override feature by developing front-end components with React & TypeScript, and back-end GraphQL APIs using Flask, enabling clients to strategically schedule tv ads, resulting in a 30% increased engagement during promotional periods.
- Designed ingestion pipelines utilizing Airflow DAGs to get data from AWS S3 to Metabase.
- Utilized complex SQL queries and data transformation techniques to efficiently extract and process over 10,000 rows of television data daily from redshift data warehouse to Tableau dashboards thereby facilitating data driven decision making.
- Spearheaded the creation of exhaustive Python unit tests, validating diverse use cases, while collaborating seamlessly with development team to identify and rectify bugs, ensuring superior feature reliability and optimized system performance.

Associate Software Engineer | Neebal Technologies | Mumbai, India

Jul 2020 - Jul 2022

- Restructured a banking application to seamlessly merge over 5 new features and integrated it with native application for Android and iOS platforms using Flutter framework, resulting in enhanced user experience, and streamlined operations.
- Integrated Web Services in Swift for seamless GET/POST requests, cut crashes by 25% via Crashlytics, and elevated user engagement by 40% with APNS and Firebase push notifications.
- Designed, implemented, and rigorously tested Flutter and Dart code using the BLoC pattern to create robust mobile applications.
- Launched lazy loading in applications, resulting in a 30% reduction in page weight and accelerated page load times.
- Programmed and debugged cross-platform mobile applications to meet user needs and resolve defects, addressing over 10 critical issues, resulting in a 25% decrease in reported problems.
- Led a team of 3 interns and successfully accomplished the required goals by delegating tasks, mentoring & fostering teamwork.

Web Developer Intern | Lionine Technologies Pvt Ltd | Mumbai, India

Apr 2018 - May 2019

- Devised and created web application with Express.js and Angular.js to increase target audience engagement by 11%.
- Developed object-oriented code in Node.js and built RESTful APIs to allow users to submit information by storing data in MongoDB.

Projects

Attendance Management System [JavaScript, Node.js, Angular.js, SQL, Bootstrap, Git]

- Constructed a student attendance management system to track student attendance and generate a consolidated report at the end of term and maintains students' report cards and personal data.
- Technology stack incorporates Node.js microservices architecture for backend, Angular.js for an appealing frontend, and an SQL database for data management.

Limited Edition Collectible NFT [React, Node.js, Ethereum, Web3.js, Smart Contracts, MySQL, Git]

- Crafted a secure blockchain-based marketplace using Node.js for backend and leveraged React.js to incorporate intuitive user interfaces, ensuring a seamless user experience, while Node.js handled server-side logic, database integration, and API interactions.
- 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.