

Shubhra Pathak

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Education

Bachelors of Technology in Computer Science and Engineering, September 2021 – June 2025
SRM Institute of Science and Technology
• CGPA:- 9.70

Professional Experiences

Cummins, Data Analytics Intern June 2024 – present
• Collaborated with stakeholders to deliver a product integrating Azure Data Lake with PowerApps along with Power Automate, streamlining Data Management for Software Bill of Materials (SBOM).
• Configured tables while creating separate schemas, executed custom SQL queries in Snowflake according to business requirements, and designed over 10+ data models in Power BI which lead to 30% faster reporting.

Infosys, iOS Application Developer Intern April 2024 – May 2024
• Collaborated in a team of 9 members as a frontend and UI/UX developer and achieved 90% customer satisfaction ratings by developing intuitive, user-friendly iOS applications while strictly following iOS Human Interface Guidelines.
• Orchestrated the conversion of client specifications into actionable development plans through Jira, enhancing project clarity and focus; the updated approach led to satisfied stakeholders and a 25% increase in client retention rates.

SRM Institute of Science and Technology, Research Paper Contributor September 2023 – February 2024
• Conducted an in-depth analysis of various ML techniques for rainfall prediction and developed and fine-tuned machine learning models, leading to improved predictive performance and accurate forecasting.
• Evaluated model performance using MAE and RMSE metrics, achieving an MAE of 4.2 mm and RMSE of 6.8 mm, which demonstrated high accuracy in rainfall forecasting.

Nu Beginnings, Full Stack Developer Intern July 2023 – August 2023
• Utilized modern web development technologies including HTML, CSS, JavaScript, and React to create an interactive blog section of the company's website, resulting in a 41% increase in website traffic.
• Increased front-end performance by employing best practices in coding and minimizing load times, contributing to a smoother browsing experience.

Projects

iOS Application Development, Infosys backed by Apple (<https://github.com/ShubhraPathak28/iOS-Application-SafeAge>)
• Engineered a robust patient-caregiver application using Swift with SwiftUI and UIKit, providing an intuitive and seamless user interface.
• Developed a scheduling solution utilizing Apple EventKit, while leveraging Apple Watch and HealthKit for real-time health monitoring.
• Implemented a robust alert mechanism, reducing emergency response time by 30% through timely alerts of deviations in vital signs.

Movie Plot Synopsis Analysis, React.js, Node.js, NLP (<https://github.com/ShubhraPathak28/Movie-Blog-Automation>)
• Built a recommendation system with React.js for the frontend and Node.js for backend, offering suggestions based on plot analysis.
• Employed NLP techniques such as NLTK for preprocessing and tokenizing text data, ensuring accurate analysis of movie synopses.
• Streamlined the recommendation engine to achieve a response time of under 100 milliseconds, significantly enhancing the user experience.

Real-time Chat Application, Node.js, WebSocket (https://github.com/ShubhraPathak28/Real_Time_Chat_App)
• Architected a robust chat application leveraging Node.js and WebSocket to build a scalable and responsive chat application, ensuring real-time communication.
• Reduced HTTP request overhead, achieving 70% less bandwidth usage and improving application efficiency.
• Optimized messaging protocols to ensure seamless, low-latency communication, enhancing overall user satisfaction.

Skills

Programming Languages C, C++, Python, JavaScript, Swift	Web and App Technologies React.js, Node.js, HTML, CSS, SwiftUI
Data Management and Automation Technologies Matillion, Snowflake, SQL, Power BI, Power Apps, Power Automate	Software Engineering and Project Management SAFe® Agile, Jira, Scrum, Agile

Achievements

Winner of Idea Generation Bootcamp, Infosys backed by Apple
Finalist in Code for Good'24, JP Morgan Chase & Co.
Cash Prize winner in Code Quest, Aarush, SRM

Certifications

AWS Academy Machine Learning Foundations, AWS
Certified SAFe® 6 Practitioner, Scaled Agile Inc.
Software Engineering Virtual Experience Program, Goldman Sachs
Oracle Certified Foundations Associate, Oracle
Introduction to Packet Tracer, CISCO Networking Academy