SAMARTH SINGH

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EDUCATION

Masters of Computer Science   Expected May 2024
Arizona State University (A.S.U.), Tempe Campus, Arizona   4/4 GPA
Relevant Coursework: Data Mining, Statistical Machine Learning, Data Visualization, Mobile Computing,Human Computer Interaction

Bachelor of Engineering in Computer Science and Engineering   August 2016 – May 2020
SRM Institute of Science and Technology, Chennai, India
Relevant Coursework: Data Structures, Web Development, Database Management System, Object Oriented Analysis and Design.

SKILLS

- **Programming Language:** Python, JavaScript, C++, C, COBOL.
- **Technical Skills:** Web Development, RESTful Web Services, Machine Learning, Data Engineering, Database Management, Data Visualization.
- **Tools & Frameworks:** React.js, Node.js, Express, MongoDB, Postgres, Docker, GraphQL, kubernetes, RESTful API, Open CV, MySQL, DB2, Postgres, SQL Server 2008, Informatica Powercenter, Informatica Big Data Management, Git.

WORK EXPERIENCE

Associate Software Engineer, Accenture, Mumbai, India   January 2021 – June 2022
- Engineered end-to-end ETL workflows using Informatica tools, including design, testing, and debugging.
- Facilitated cross-functional collaboration to finalize specifications and troubleshoot client issues.
- Enhanced ETL efficiency by 20% across multiple projects.
- Assisted in designing a dashboard for Takeda Pharmaceuticals that increased manufacturing capacity by 35%.

Programmer Analyst Trainee, Cognizant, Chennai, India   July 2020 – December 2020
- Designed and deployed RESTful API endpoints for a B2B platform, optimizing MongoDB schema for scalability.
- Collaborated with QA to address bugs and integrate feedback, boosting platform stability and user satisfaction.

ACADEMIC PROJECTS

Personal Lifestyle Management Application, Self Directed, United States of America   July 2023 – September 2023
- Built a MERN stack lifestyle management app featuring journaling, calorie tracking, goal-setting via a Kanban board and expense tracking.
- Integrated ChatGPT for intelligent user support in journaling, task management, and personalized health and financial advice.
- Utilized data visualization techniques to present a weekly/monthly dashboard summarizing user metrics, with initial user satisfaction reaching 95%.

Crowdsource Disaster Response Visualization, Arizona State University, United States of America   January 2022 – May 2022
- Led a team of 4 to develop data visualization techniques that analyze and prioritize earthquake damage reports.
- Architected an array of multifaceted visualizations to deliver in-depth analyses of damage severity, data trustworthiness, and temporal variations.
- Empowered emergency responders to make data-driven decisions, optimizing disaster response strategies.
- Achieved recognition as the 2nd best project in class through in-class voting.

Fitness Tracker and Trainer, Arizona State University, United States of America   October 2022 – November 2022
- Collaborated with a cross-functional team of four to construct an AI-driven fitness tracker that monitors user body movements, counts exercise repetitions, assesses form quality, and offers real-time corrective feedback to reduce injury risks.
- Validated system performance via a 100-video test suite, achieving a high accuracy rate of 91%.

Weather Prediction, Arizona State University, United States of America   October 2022 – December 2022
- Devised a weather prediction system capable of forecasting 37 different conditions, leveraging 14 distinct weather parameters.
- Maintained an 85% accuracy rate during tests involving over 10,000 data instances.

ACTIVITIES AND AWARDS

- Best Paper Award for "Real-Time Face Liveness Detection using Eye Blinking and Illumination Techniques" at the 8th International Conference on Contemporary Engineering and Technology, 2020.
- Presented a paper in International Conference on Internet of Things "An Analysis of Anti-Spoof Mechanisms in Face Liveness Detection", 2020.