Taleef Tamsal

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Summary

Computer Science graduate student with software development, machine learning, frontend, backend, and full-stack development expertise. Skilled in web application development, SDLC, data structures, data science, AI/ML and DL models, operating systems, computer architecture, ETL, cloud and cloud computing, and delivering data-driven insights and solutions. Proven team player with a track record in enhancing workflows, being collaborative, implementing best practices, cloud infrastructure, user engagement and product design, and leveraging agile methodologies to drive impactful results

EDUCATION

Purdue University

Master of Science in Computer Science

Lahore University of Management Sciences

Bachelor of Science in Computer Science

Indiana, USA

Aug. 2024 – May 2026 (Expected)

Lahore, Pakistan

Aug. 2020 – May 2024

Experience

Digital Channel and Partnership Intern

PMCL-Jazz

July. 2023 – Aug. 2023 Islamabad, Pakistan

- Managed product lifecycle for push notification features, ideation to implementation by leveraging A/B testing and data-driven insights to enhance user engagement by 20% and retention by 15%
- Collaborated with cross-functional teams, including UI and UX designers, product, data, and DevOps, to iterate on app usability enhancements, boosting user experience ratings by 30%

Undergraduate Teaching Assistant

 $August\ 2022-December\ 2023$

Lahore University of Management Sciences

Lahore, Pakistan

- Curated and refined comprehensive assignments, quizzes, and learning materials for CS courses, boosting student participation and improving average grades through problem-solving
- Facilitated weekly office hours, conducted code and algorithms reviews, and provided tailored one-on-one guidance to over 50 students, helping them solve complex problems, and fostering a community of learning and mentorship

Projects

Online News Characterization | Python, LLMs, Hugging Face, Scikit-learn

September 2024 – Present

- Developed and fine-tuned deep learning Natural Language Processing (NLP) and ML (Logistic Regression, Decision Trees, XGBoost) and DL model pipelines, utilizing BERT and XLM-R in Jupyter Notebooks, to extract narratives, transform and analyze raw data, perform entity framing, and classification of disinformation in news articles
- Optimized model performance by implementing advanced statistical analysis, data transformation, cross-validation, and hyperparameter tuning, demonstrating expertise in processing and analyzing multilingual datasets

Biometric Attendance System | MongoDB, Express, React, Node.js, Git

January 2024 – May 2024

- \bullet Architected and implemented a full-stack MERN web application for employee attendance tracking using biometric verification, reducing errors by 90% and streamlining administrative workflows
- Delivered the project using agile methodologies, including Scrum and Kanban, while integrating API development, performance optimization, and rigorous testing

Attendance Tracker 4.0 | Firebase, React, Material-UI, Node.js, Sass

September 2024 – December 2024

- Built an end-to-end QR code-based system for managing student attendance, automating recordkeeping, ensuring CI/CD, code reliability, automation, testing, and generating detailed reports using the NoSQL Firebase Database
- Designed a dynamic and responsive interface with React and Material-UI, practising version control, creating unit tests, and incorporating features such as QR code generation and email distribution to streamline workflows and improve efficiency

Technical Skills

Languages: Python, C, C++, C#, Java, JavaScript, TypeScript, SQL, PowerShell, Bash, Kotlin, R, Haskell, MATLAB Frameworks & Libraries: Pandas, NumPy, Angular, ReactJS, Node.js, TensorFlow, PyTorch, Matplotlib, Scikit-learn Developer Tools: Jira, Tableau, Git, Kafka, Docker, Databricks, AWS, Kubernetes, Apache Spark, Linux, Azure, Excel, Power BI, Scala, GCP, Postman, Sass, Keras, Selenium, Cypress

Soft Skills: Problem-Solving, Critical Thinking, Collaboration, Communication Skills, Compliance, Teamwork Certifications: freeCodeCamp Responsive Web Design, Google Data Analytics, IBM Cybersecurity Analyst, Meta Front-End Development, DeepLearning.AI Data Engineering