Muhammad Taimoor Aleem

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Experience

Software Developer Intern | Dayforce | Employer Evaluation ↗ | LOR ↗   **Jan 2025 - Dec 2025 (12 Months)**

- Developed and maintained backend infrastructure using C#/.NET, SQL Server, and Azure DevOps CI/CD.
- Built and supported event-driven financial data pipelines using Apache Kafka to stream and process real-time high-volume POS tip transactions, enabling instant digital disbursement through the Dayforce Wallet platform.
- Implemented retry and resilience mechanisms for tip processing, including re-queuing unprocessed events, exception handling for Kafka timeouts, and automated patch workflows to ensure data consistency and fault tolerance.
- Researched and optimized Restful APIs by troubleshooting performance bottlenecks and implementing efficient database queries; improving reliability and response times for downstream systems and increasing unit test coverage to 80%.
- Collaborated cross-functionally with mobile developers and stakeholders in an Agile environment; delivered feature demos to 50+ senior leaders and managers, strengthening technical communication and presentation skills.

Jr. Software Developer | Skill Squirrel | Employer Evaluation ↗   **May 2024 - Nov 2024 (7 Months)**

- Developed a Python-based prototype to enhance the Badge Maker using Azure's Vision API and Generative AI, involving OCR, image-to-text conversion, and API-based image generation to demonstrate feature feasibility.

Extra-Curricular Experience

Vice President | Google Developer Group on Campus Sheridan College | LOR ↗   **Sep '25 - Present**

- Leading 30+ team leads/members of a Google affiliated club to organize events and support 800+ community members.
- Integrated Google technologies (Google Cloud, BigQuery, TensorFlow, etc) into technical workshops and hackathons.

Founder & Lead Event Organizer | Sheridan Datathon 2025 | Official Event Page ↗ | Event Recap ↗   **Apr '25 - Nov '25**

- Founded and led a Datathon attracting 300+ students across Canada; managed cross-functional teams of 50+ organizers and volunteers and led multiple moving parts to successfully lead GDG's largest event in history.

Projects

AI Cricket Coach ↗ | *Python, OpenCV, Flutter, Google Cloud* | Capstone Project | Report ↗   **Sep 2024 - Apr 2025**

- Served as the project leader and achieved First Place by developing a mobile application that utilizes Computer Vision to track the ball trajectory and Machine Learning to provide personalized feedback for improvement to athletes.
- Engineered a video analysis pipeline using OpenCV to extract ball trajectory features and deployed the Random Forest-based ML model and processing pipeline on Google Cloud for scalable, real-time inference.
- Followed the complete Software Developement Life Cycle to build the mobile application using Flutter; implemented key software design patterns (Repository, Singleton, Factory) to ensure modularity, testability, and maintainability.

AI Workout Detector ↗ | *Python, Scikit-learn, Matplotlib, Seaborn* | Personal Project   **Aug 2024**

- Engineered an end-to-end ML pipeline to classify barbell exercises from 70K+ real-world accelerometer and gyroscope sensor readings; achieving 95.8% accuracy with optimized Random Forest through greedy forward feature selection.
- Implemented signal processing using Butterworth filtering, Fast-Fourier Transformation, and Principal Component Analysis, extracting 100+ temporal and frequency domain features from 6-axis IMU sensor data.
- Designed repetition counting algorithm using local maxima detection on low-pass filtered magnitude signals, implementing dynamic axis selection and cutoff parameter tuning per exercise; achieving <2 reps mean absolute error.

Education

Honours Bachelor of Computer Science (Specialization in Data Analytics)   **Sep 2021 – Apr 2026**
Sheridan College   *Oakville, ON*

Skills

Programming Languages:	Python, SQL, C#, JavaScript, TypeScript, Java, C/C++, GO
Data Science / Engineering:	Pandas, NumPy, scikit-learn, XGBoost, RAG, TensorFlow, PyTorch, Spark, Hadoop
Cloud Computing:	GCP (Cloud Run, Pub/Sub, BigQuery), Azure (AI, DevOps), AWS (Lambda, EC2, S3)
Databases & Tools:	Git, Jira, Docker, Kafka, SQL Server, MongoDB, MySQL, PostgresQL
Libraries & Frameworks:	ASP.NET, React.js, Express.js, Next.js, Node.js, Angular, Flutter, Tailwind, Bootstrap