Chirdeep S. Reen

AI Software Engineer | Cloud & Data | M.Sc. Computer Science

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TECHNICAL SKILLS

Programming Languages/ Frameworks

- Python
- Typescript
- Java
- SQL
- C/C++

Data Engineering/ Cloud and Infrastructure as Code

- AWS Services
- Microsoft Azure
- Spark
- SQL/NoSQL stores, object storage
- lake/lakehouse patterns, and efficient data ingestion/ELT

Orchestration and DevOps

- GitHub Actions/Azure DevOps pipelines

AI/Machine Learning/ NLP

- LLM frameworks and tooling: LangChain/LangGraph for agentic workflows; Pytorch, Tensorflow, Langchain, Ollama, Spacy, Hugging Face.

PERSONAL COMPETENCIES

Strong teamwork, communication, and leadership abilities developed through extensive participation in competitive sports such as basketball and soccer; demonstrate resilience, adaptability, and strategic thinking both on and off the field.

SUMMARY

AI Software Engineer with expertise in programming, data engineering, DevOps, cloud technologies, and AI/ML. Experienced in designing scalable AI microservices and predictive pipelines, holding a Master of Science in Computer Science from the University of Strathclyde. Passionate about creating impactful software that empowers users and driven to contribute to innovative technology, that adds value to society. Actively seeking opportunities to grow and deliver value in software and AI roles.

WORK EXPERIENCE

October 2025 - Present

AI Engineer

VGL Group Limited

- Development of predictive modeling pipelines using Python and Azure ML, resulting in increased forecast accuracy from 65% to 88%, enabling data-driven decision-making across operational processes.
- Deployment of scalable AI microservices leveraging Azure Functions and Azure SQL for real-time inference, leading to reduced manual intervention and improved operational efficiency.
- Automation of model retraining and deployment workflows through Azure DevOps CI/CD pipelines, enhancing release reliability and speeding up iteration cycles.

July 2021 - Dec 2022

Business Analytics Associate

Cobot Systems Pvt Ltd.

- Automated 40+ reporting workflows using Python, AWS, SQL and Tableau, reducing manual reporting time by 70% and enabling faster, data-driven decisions.
- Developed and maintained scalable ETL pipelines processing 10M+ records, for efficient data ingestion and transformation.
- Contributed to CI/CD processes by resolving 80+ issues using RCA, automated testing, and managing version control with Git, ensuring 99% uptime and stable production releases.
- Used Postman and SQL to validate API endpoints and ensure data accuracy across platforms, optimised database queries and supported schema updates.

EDUCATION

Sept 2019 - Jan 2022

Masters of Science, Computer Science

University of Strathclyde

Glasgow, United Kingdom

Aug 2016 - Aug 2020

Bachelor of Technology, ISC Engineering

Netaji Subhas University of Technology, New Delhi, India

Delhi, India

Certifications

- AWS Certified Cloud Practitioner (CLF-C02)
- Deep Learning.AI: Introduction to Data Engineering
- Deep Learning.AI: Source Systems, Data Ingestion, and Pipelines
- Meta: React Basics

HOBBIES & INTERESTS

I'm passionate about team sports, actively playing basketball and soccer to maintain fitness and camaraderie; and enjoy playing guitar in my free time.

- IBM: Python Basics for Data Science

DATA & AI PROJECTS

May 2024 - Sept 2024

Image Similarity Based Recommendation System

M.Sc. Thesis, University of Strathclyde

- Development and implementation of an end-to-end machine learning pipeline in Python for a movie recommendation system, integrating the TMDB API for data retrieval and preprocessing.
- Enhancement of feature extraction using transfer learning by fine-tuning ResNet50, improving model performance.
- Reduction of data dimensionality through auto-encoders to optimize computational efficiency.
- Application of cosine similarity to cluster visually similar movie posters effectively.

August 2024

Mental Health monitoring application for Social Media Platforms

Course Project, University of Strathclyde

- Developed a Mental Health Monitoring Application for social media platforms, utilizing advanced natural language processing techniques.
- Processed and cleaned over 10,000 labeled tweets to create high-quality datasets supporting mental health intervention research.
- Demonstrated the effectiveness of transformer-based architectures in mental health detection by achieving a classification accuracy of 91.62%, surpassing traditional models such as CNNs and LSTMs.

August 2024

Distributed Information System for university database applications

Course Project, University of Strathclyde

- Designed and integrated data models (ERD, RDBMS, XML, OWL) for a university database, optimizing schema design and data retrieval. Improved query performance using MySQL, XQuery, and SPARQL, enhancing system efficiency. Ensured data accuracy and reliability through rigorous testing and validation.