**Saiham Rahman**

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**Summary**

*Experienced data professional working as an MLOps Engineer for designing, developing, deploying, and maintaining cloud cost-efficient machine learning models. Automating CI/CD of experimentation and production pipelines for improved model performance. Comfortable with fast-paced agile workflows. An excellent communicator with an aptitude for success. Seeking new opportunities for growth.*

**Education**

**MSC IN ARTIFICIAL INTELLIGENCE | QUEEN MARY UNIVERSITY OF LONDON SEPT 2021 – SEPT 2022**

* Graduated with Distinction and attained over 90% grades in coursework.
* Delivered exemplary academic projects in Information Retrieval, Data Science, Machine Learning, Deep Learning, Computer Vision, and Computational Creativity.
* Researched and conveyed results using verbal presentations, reports, and academic papers.

**BSC IN COMPUTER SCIENCE AND ENGINEERING | BRAC UNIVERSITY JAN 2017 – MAY 2021**

* Received CGPA 3.31/4.0 and Honoured in the Vice Chancellors List of Academic Excellence for 2 years.
* Attained proficiency in Software Engineering, Database Management Systems, Web Development, Systems Analysis and Design, Compiler Design, SDLC and Artificial Intelligence.
* Participated in 4+ hackathons, entrepreneur accelerator programmes and coding bootcamps.

**Software Engineering Experience**

**MACHINE LEARNING ENGINEER | FREELANCE | LONDON, UK NOV 2022 – PRESENT**

* Collaborated with a cross-functional start-up team of 5+ people, including data scientists, software engineers, and stakeholders, to successfully deploy ML models into production.
* Engineered ETL pipelines using SQL to extract and transform data from relational database, resulting in enriched insights, improved data visualisation and enhanced model training pipeline.
* Designed Micro-Service Software Architectures for lower cloud computing cost using custom Docker container images for end-to-end CI/CD MLOps and self-service monitoring.

**DATA SCIENCE CONSULTANT | ACADEMIC EDUCATION UK LTD. | LONDON, UK SEPT 2022 – FEB 2023**

* Reduced operational overhead by 35% by automating data ETL pipelines, data versioning, quality checks, data migrations, and data evaluation resulting in increased efficiency and cost savings.
* Developed Python code to predict lead categories, deployed Azure AutoML using Terraform, documented clean code with unit tests, and deployed model for real-time API endpoint.
* Collaborated on 2 EdTech projects and created visual reports with detailed analysis and actionable insights, resulting in improved decision-making and increased ROI.

**DATA SCIENCE & AI INTERNSHIP | FORAGE | LONDON, UK MAR 2022 – AUG 2022**

* Conducted 150+ hours of data cleaning and analysis, preparing both textual and visual data for machine learning model development.
* Developed 3+ machine learning and deep learning models using libraries like PyTorch, Tensorflow, and SciKit-learn thus improving data-driven decisions by up to 25%.
* Created 5+ interactive dashboards using Power BI, effectively communicating data-driven insights and visual reports to stakeholders.

**RELEASE ENGINEERING MANAGER INTERN | PLAYENSE | REMOTE MAR 2021 – AUG 2021**

* Pioneered Agile methodology with Senior Product Manager and led a team of developers, level designers and artists to achieve defined sprint goals.
* Managed 4+ concurrent DevOps pipelines to achieve 5M+ and 100K+ game downloads.
* Facilitated game development using C# to build AI agents and viewpoints for prototype games.

**PROFESSIONAL DEVELOPMENT | CAREER BREAK MAR 2020 – MAR 2021**

* Completed 10+ online courses in data science, machine learning, and AI.
* Developed an end-to-end machine learning pipeline for a real-world business problem.
* Improved skills in programming languages such as Python, SQL, and R.

**SOFTWARE QA ENGINEER | YODA TECHNOLOGIES FEB 2019 – MAR 2020**

* Designed and modelled a MongoDB database PWA app for the EdTech start-up on AWS EC2 instance, leveraging DevOps CI/CD workflows, resulting in 30% faster release cycles.
* Created and executed test plans, test cases, and test scripts, which led to a 40% reduction in post-release issues and a 60% improvement in product reliability.
* Contributed to the end-to-end software development lifecycle (SDLC) by participating in patent research, marketing, analytics, lead sourcing, requirement analysis, and SRS documentation.
* Efficiently managed SDLC using JIRA and facilitated code review, prototyping, bug tracking, and reporting, resulting in a successful and streamlined development process.

**Other Experience**

**GRADUATION CEREMONY STAFF | EDE & RAVENSCROFT | LONDON, UK JAN 2023 – PRESENT**

* Collaborated with a team of 20+ staff members to maintain a high level of professionalism, resulting in the successful execution of 50+ graduation ceremonies for 10,000+ graduates.

**ASSISTANT OFFICE ADMINISTRATOR | UK GRADUATE LTD. | LONDON, UK OCT 2021 – MAR 2022**

* Analysed 500+ documents on SharePoint by managing the company's document management system and resolved 150+ customer tickets and complaints via telephone and email.

**SALES EXECUTIVE | PC HARDWARE SOLUTIONS AUG 2015 – JAN 2019**

* Built and configured custom PCs and exceeded monthly sales targets by an average of 15%, resulting in a 20% increase in annual revenue for the company.

**Volunteering & Leadership**

**BRITISH HEART FOUNDATION | SALES FLOOR VOLUNTEER | LONDON, UK APR 2023 – PRESENT**

* Managed instore sales and promoted BHF campaigns.

**BRAC UNIVERSITY COMPUTER CLUB | ASSISTANT DIRECTOR MAR 2017 – JUL 2020**

* Led the marketing department in executing high impact marketing campaigns with over 90% attendance.

**Certifications**

* **ACADEMIC IELTS:** British Council, Overall Band Score 7.0 (CEFR C1) (09/JUN/2021)
* **MATHEMATICS FOR MACHINE LEARNING:** Imperial College London, (Coursera May 2020)

**Personal Projects**

**[MLOps | Reinforcement Learning] Improving MCTS and DeepMind MuZero using Posterior Sampling**

* Leveraged IaC and Docker for local HPC hardware using yaml and Jenkins for MLOps CI/CD.
* Tensorboard for model auditing, training, registry, evaluating, deploying, and monitoring.

**[Computer Vision | Deep Learning] Image Generator using GAN Stable Diffusion with Serverless GPU Inference**

* Utilised AWS services, including API Gateway, Lambda functions, Amplify, S3 storage, and serverless GPU.
* Implemented MLOps practices for streamlined CI/CD workflow and monitoring model and infrastructure drift.

**[NLP | Data Science] Data and Document Retrieval Analysis using Natural Language Processing**

* Utilised Apache Spark and SQL programming to create ETL pipeline for data retrieval from relational database.
* Calculated BM25, PL2 and TF-IDF for ranking documents and visualised using charts for query performance of models. Presented a visual report on the best performing model for the database.

**Technical Skills**

* **Programming Languages:** Python, C#, Java, SQL, JavaScript, Git, bash, Power Query, JAX
* **Libraries:** PyTorch, Pandas, Django, Flask, Chart.js, Node.js, Spark, PostgreSQL
* **Dev Tools:** Linux, Docker, Kubernetes, Airflow, Kafka, Jenkins, Kubeflow, MLflow, Grafana
* **Cloud Computing and Automation:** AWS, Terraform, CloudFormation, GCP, Snowflake
* **Project Management and Versioning:** Agile, JIRA, GitHub, Bitbucket, SourceTree, Confluence
* **Languages:** English (Fluent), Bengali (Native), Hindi (Limited)