**Saiham Rahman**

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**Education**

*Professional ML Engineer/Data Scientist with 4+ years’ experience in Software Engineering. A proven track record of successfully delivering cost-effective, scalable end-to-end ML projects. Proficient in Python, SQL, and the latest ML frameworks, with expertise in designing and implementing best practices. Strong collaboration and communication skills, focused on achieving client satisfaction and driving impactful results. A fast learner, seeking opportunities for growth.*

**Education**

**MSC ARTIFICIAL INTELLIGENCE SEPT 2021 – SEPT 2022**

Queen Mary University of London | Grade: Distinction

*Relevant Courses: Information Retrieval, Machine Learning, Deep Learning, Computer Vision*

**BSC COMPUTER SCIENCE AND ENGINEERING JAN 2017 – MAY 2021**

BRAC University | Honour: Vice Chancellor’s List 2020/2021

*Relevant Courses: Database Management Systems, Systems Design, Object-oriented programming, Algorithms*

**Experience**

**STAFF WORKER | EDE & RAVENSCROFT | LONDON, UK MAR 2023 – PRESENT**

* Identified cost-effective trends by analysing data and collaborated with a team of 20+ team members to maintain a high level of professionalism, which resulted in the successful execution of 10+ projects.

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

* Led end-to-end implementation of machine learning projects using tools such as Python, Pandas, NumPy, and Scikit-Learn, resulting in a 30% increase in predictive accuracy and a 20% reduction in processing time.
* Developed batch and real-time data processing pipelines using technologies such as Kafka, SQS and SNS ensuring seamless data integration and improving model performance by 20%.
* Implemented MLOps best practices, such as system reliability, model governance, security, versioning, and monitoring, reducing deployment time for data science solutions by 50%.
* Collaborated with the cross-functional analytics team by automating ML pipelines with tools like MLflow, Git for versioning, leading to improved data insights, and a 15% reduction in manual effort.
* Utilised Docker for containerisation, Kubernetes for orchestration and Terraform for infrastructure to ensure highly scalable environments for experimentation, staging and production.
* Automated CI/CD pipelines using tools like Jenkins, Airflow and Terraform that facilitated rapid deployment and testing of code, resulting in a 30% faster release in for new features.
* Ensured compliance with ethical and legal aspects of GPDR data management by administering and auditing running instances, SharePoint sites, and Azure active directory, resulting in mitigation of data privacy risks.
* Conducted data analysis, communicated complex technical processes to stakeholders, effectively presented key findings and potential solutions, resulting in a 40% increase in client engagement and project success.

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

* Proficiently utilised Azure Data Factory, Data Bricks, Data Lake, and other cloud services (AWS RDS, PostgreSQL, Snowflake) to streamline workflows, resulting in a 15% reduction in cloud costs and improved data accessibility.
* Architected end-to-end ML analytics platform leveraging tools like Docker, Terraform, and Kubernetes, leading to streamlined workflows and a 40% improvement in model scalability.
* Actively improved existing DevOps/MLOps practices, resulting in a 20% reduction in deployment time and a 15% increase in overall system stability using infrastructure orchestration tools like Terraform, Kubeflow.
* Demonstrated proficiency in UNIX/Linux systems administration, including Debian/Ubuntu, and implemented system monitoring strategies for k8’s using Prometheus and Grafana, reducing critical incidents by 30%.
* Leveraged Python, SQL to extract insights from complex research processes and datasets using analytical libraries, contributing to a 20% improvement in data analysis accuracy and actionable insights.
* Researched business problems into productive data models and ETL processes by conducting 150+ hours of data cleaning and analysis, resulting in a 15% improvement in operational efficiency and 99% data accuracy.

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

* Mentored the professional growth of junior admins, resulting in a 50% improvement in team productivity.
* Analysed 500+ documents on SharePoint by managing the company's document management system and resolved 200+ customer tickets and complaints via telephone and email.

**PROJECT MANAGER | PLAYENSE | REMOTE MAR 2021 – AUG 2021**

* Pioneered Agile methodology, managed 3+ cross-functional teams and sprint-based development cycle, adhering to Scrum, enabling timely project delivery, and ensuring a 95% on-time completion rate for projects.
* Assisted in debugging production issues and implemented sustainable solutions, reducing downtime by 30% and preventing similar issues from recurring.
* Translated technical requirements into actionable project plans, contributing to a 30% increase in successful project bids and improved client satisfaction to achieve 5M+ and 100K+ downloads.

**DEVOPS TRAINING | CAREER BREAK MAR 2020 – MAR 2021**

* Applied configuration management tooling such as Ansible, ensuring consistent system configurations.
* Developed workflows for data transformation, metadata extraction, and streamlining data management.
* Developed an end-to-end DevOps for a machine learning analytics pipeline for a real-world business problem.
* Attained proficiency in AWS services such as EC2, S3, Lambda, CloudWatch, SQS and Route 53.
* Engineered scalable, reproduceable, and maintainable serverless products following micro-service design patterns using Docker, Kubernetes, CloudWatch, Elasticsearch, API Gateway, SNS, SQS, RDS and DynamoDB.

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

* Built and optimized infrastructure in AWS using Terraform, leading to a cost reduction of 25% while improving system performance by 15%.
* Utilised networking knowledge, including security protocols, load balancers, API Gateways, and SSH bastions, to ensure secure and efficient data transfer.
* Gained experience with large distributed systems, ensuring seamless scalability, and handling high traffic volumes, resulting in a 40% improvement in system performance.
* Created and executed test plans, test cases, and test scripts, modelled data in Mongo DB, which led to a 40% reduction in post-release issues and a 60% improvement in product reliability.
* Assisted in debugging production issues and implemented sustainable solutions, reducing downtime by 30% and preventing similar issues from recurring.
* 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.

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

* Leveraged domain expertise and analysed specific challenges, resulting in a 30% improvement in retention.

**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.

**Technical Skills**

* **Programming Languages:** Python, C#, Java, SQL, R, Java, TypeScript, bash, DAX, VBA
* **Libraries:** PyTorch, Scikit-Learn, Pandas, Flask, Next.js, Chart.js, Spark, PostgreSQL
* **Tools:** Excel, MS Office, Windows, Linux, Docker, Kubernetes, Kafka, MLflow, Prometheus, Grafana
* **Cloud Computing and Automation:** Azure, AWS, Terraform, Snowflake, Jenkins, Airflow, Ansible
* **Project Management and Versioning:** Agile, JIRA, GitHub, Bitbucket, SourceTree, Confluence