

# SK GOLAM SAROAR

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## EXPERIENCE

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### **DIVERT Mental Health, Full Stack Developer (Contract- 6 months)**

Nov 2023 – May 2024

*Docker, Kubernetes, React, Redux, NodeJS, PostgreSQL, WordPress, Moodle, OpenStack, Linux*

- Streamlined migration of virtual environments and infrastructure across cloud platforms, yielding \$18,000 in annual operational savings and enhancing system response time by 15%.
- Developed a bespoke mentoring matching application, achieving over 90% success in pairing mentors with mentees.
- Automated critical processes, notably reducing user onboarding time from days to seconds, enhancing operational efficiency.
- Provided support to Program Manager and Principal Investigator for the IBM Canada partnership, maintaining our Learning Management System, and ensuring timely milestone accomplishments.
- Established a robust ticket management system, conducted website enhancements and bug fixes, and authored comprehensive documentation for future development reference.

### **Dynamic Solution Innovators, Software Engineer**

Dec 2017 – Aug 2021

*Java, Spring, Hibernate, JUnit, Oracle, JavaScript, RESTful API, Microservices, jQuery, Bootstrap, Python, ML*

- Developed features using Agile methodologies as a full-stack software engineer for an education information management system by UNICEF, serving over 20M students, 150K schools, and 350K teachers.
- Migrated database vendor from Oracle to PostgreSQL, helping a statement delivery company save about \$60,000 per year.
- Transformed an EJB monolithic application to Spring-based microservices, upgraded older plugins and libraries to latest versions, and wrote custom plugins, to speed up the website nearly two times.
- Redesigned application to be completely accessible (WCAG) and responsive, helping their product become 508-compliant, attaining exceptional customer satisfaction, and consequently drawing 20% more customers.
- Revamped fraud detection for a financial institution by transforming highly imbalanced dataset and applying machine learning models (XGBoost, Local Outlier, Isolation Forest), boosting fraud detection rate by 20% and reducing false negatives by 15%.
- Led a team to analyze local newspaper articles for sentiment analysis, discerning positive and negative news trends, and helping gauge the effectiveness of businesses and the government.
- Participated in requirement analysis, sprint planning, system design, documentation, and code reviews.
- Mentored new employees on Design Patterns, JavaScript, and fundamentals of Machine Learning (ML).

## EDUCATION

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M.Sc., Computer Science, York University, *First Class Standing With Distinction, GPA: 8.4/9.0*

Aug 2023

B.Sc., Computer Science & Engineering, BRAC University, *Academic Distinction, Dean's List, GPA: 3.54/4.0*

Aug 2017

## CERTIFICATIONS

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AWS Cloud Practitioner, *Issued by Amazon Web Services*

Nov 2019

## SKILLS

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**Languages:** Java, JavaScript, Python, TypeScript, SQL, HTML5/CSS3

**Frameworks & Libraries:** Spring, Hibernate, React, Redux, NodeJS, JUnit, Bootstrap

**Databases & DevOps:** MySQL, PostgreSQL, MongoDB, Redis, Git, Docker, Kubernetes

**Others:** AWS, Google Cloud, RESTful API, Microservices, Agile Scrum, Design Patterns, Object Oriented Programming

## PUBLICATIONS

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- Developers' Perception of GitHub Actions: A Survey Analysis. <https://doi.org/10.1145/3593434.3593475>
- A Comparative Approach to Email Classification Using Naive Bayes Classifier and Hidden Markov Model. <https://doi.org/10.1109/CAEE.2017.8255404>

## PROJECTS

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**memjour.com** | *PHP, Laravel, MySQL, Redis, AWS, OMDb API* | [Visit Website](#)

Users can write daily stories, keep track of books, movies, and TV shows, filter stories by moods, tags, etc.

**BookBridge** | *Java, Spring, MySQL, JPA, Hibernate, HATEOAS* | [View on GitHub](#)

User can add books with authors and categories. User can also add borrowers when they want to lend books.

**Interactive Machine Learning** | *Python, Streamlit, Pandas* | [View on GitHub](#)

Interactive classification web app using Logistic Regression, Random Forest, or SVM with adjustable hyperparameters.