Sheikh Aminul Islam

BI & Data Analytics Enthusiast | Tech-Savvy Problem Solver

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Summary

Dedicated BI Developer with hands-on experience in data analysis, visualization, and reporting. Proficient in SQL, Excel, Tableau, and Python. Currently contributing to business intelligence projects at a professional level, aiming to leverage data-driven insights for organizational growth.

Experience

Junior BI Developer @ Radiant Data Systems Ltd. — Sep 2025 – Present
– Develop and maintain BI dashboards and reports, ensuring data accuracy and actionable insights.
– Extract, transform, and analyze data from SQL databases to support business decisions.
– Collaborate with senior BI developers and continuously learn new BI tools and technologies.

Education

B.Sc in Computer Science and Engineering	HSC	SSC
GPA: 3.512/4.00	GPA: 5.00	GPA: 5.00
Ahsanullah University of Science and Technology	Government Science College	Dhaka Residential Model College
Dec 2020 – Jan 2025	2017 – 2019	2015 – 2017

Skills

Core Technical Skills	SQL, Excel, Tableau, Python, Data Analysis, Data Visualization, Reporting
Programming & Web Technologies	C, C++, Java, HTML, CSS, Tailwind, JavaScript, React, Django
Tools & Platforms	Visual Studio Code, Git, GitHub, Ms Office, Adobe Photoshop
Professional & Analytical Skills	Data-driven Decision Making, Problem Solving, Team Collaboration, Attention to Detail, Time Management, Adaptability

Research and Publications

Smart Helmet with IoT Integration: Enhancing Rider Safety with Real-Time Hazard Alerts ↗
1st Author – Published in *IEEE Xplore*, ICCIT 2024, Cox's Bazar, Bangladesh
– Led the development of an IoT-based smart helmet system to enhance rider safety through real-time hazard detection, emergency alerts, and automated bike control. Demonstrated leadership in system design, cross-functional collaboration, and real-world impact.

Automated Glaucoma detection and classification from large-scale fundus image dataset using YOLOv8 and CNN ↗
1st Author – Undergraduate Thesis, Ahsanullah University of Science and Technology
– Accepted in *Applied Information System and Management (AISM)* Journal
– Directed a computer vision research project focused on glaucoma detection using AI-driven techniques. Managed the entire pipeline from dataset preparation to model validation, highlighting leadership, innovation, and applied problem-solving in healthcare.

Projects

IoT and Embedded Systems (C++, Arduino, ESP32, Sensors & Actuators)

Smart Helmet - IoT Based Prototype ↗ – Designed an IoT-based smart helmet with real-time safety

monitoring. Integrated sensors for helmet detection, alcohol monitoring, fall detection, and road hazard alerts. Used ESP-NOW communication for helmet-bike ignition control based on safety conditions. Sends notifications for road hazards and emergency SMS alerts with rider's GPS location.

Automated Fire Fighting Robot - Arduino Based robot [↗] – An Arduino UNO-based robot in C++ that autonomously detected and extinguished fires with 90% accuracy, using IR sensors and obstacle avoidance for real-time response.

Web Development (HTML, CSS, JS, PHP, C#, SQL)

Cicerone - Travel Management Website [↗] – Built a tour and travel management website using HTML, CSS, JavaScript, C#, and MySQL, enabling users to browse, customize, and book travel packages through an intuitive interface.

Chorchapod - E-learning Platform [↗] – Developed an e-learning platform using HTML, CSS, PHP, and JavaScript, featuring course enrollment, video lessons, assessments, and software analysis documentation.

InfinityDent - Dental Website [↗] – A responsive dental website using HTML, CSS, Bootstrap, PHP, and MySQL, providing detailed clinic information and an appointment scheduling system for patients.

Desktop & Mobile Applications (Java, C#, JavaFX, SQL, Kotlin, Android Studio)

Effecto - Desktop Photo Editor [↗] – Developed a C#-based photo editor with RGB filters, visual effects, undo, and save features.

Frostwolf - Web Browser [↗] – Built a JavaFX browser with MySQL-based bookmarks and history.

Keepnotes - Mobile Note App [↗] – Created a secure Kotlin-based notepad app with login, note management, color themes, and smooth UI animations.

Database & 3D Modeling Projects (Java, MS SQL, Three.js, WebGL)

Sketch - Factory Management System [↗] – Developed a timber/wood factory management system in Java with Microsoft SQL for managing inventory, orders, and sales.

Reading Room – 3D Web Visualization [↗] – A 3D interactive reading room using Three.js, JavaScript, HTML, and WebGL with custom textures, lighting effects, and model-based navigation.

Game Development (C, C++, iGraphics, JavaFX)

BlasterBall- Paddler Game [↗] – A casual paddle-ball game using C++, C, and the iGraphics library, featuring two game modes and power-ups to enhance user engagement and gameplay experience.

Balloon Shooter - Shoot and Pop game [↗] – A 2D aiming game using C++, C, and the iGraphics library, where players pop balloons to score points, featuring smooth gameplay and interactive design elements.

Flashcard - Learning Game [↗] – A flashcard app using JavaFX and Scene Builder, allowing users to create, store, and review flashcards for effective study and learning.

Impactful Contributions

- **Led and authored** a published IoT-based smart helmet project focused on real-time hazard detection, emergency response, and field safety — showcasing innovation, team coordination, and solution rollout in a practical context.

- **Directed and led** a machine learning-based glaucoma detection thesis; accepted for journal publication as first author — demonstrating end-to-end research execution, data-driven problem-solving, and leadership in applied innovation.

- Successfully **built business-ready solutions reflecting real SME use cases**, managing interdisciplinary teams and ensuring timely delivery across multiple university-level projects.

- Demonstrated the ability to **communicate ideas effectively**, engage cross-functional teams, and present complex concepts to both technical and non-technical audiences.

- Recognized for **adaptability, field-readiness, and client-oriented communication** in both academic settings and project-based environments.

Certificates

Blockchain Technology   **Creative IT Institute**, Feb 2023 – Sept 2023
–Successfully completed a certified course on Blockchain Technology, focusing on decentralized applications, smart contracts, and blockchain fundamentals.

References

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