

# SHEIKH SAJJAD HOSSAIN

Mirpur, Dhaka, Bangladesh • +880 1971 656022 • sajjaddk9@gmail.com • sajjad21.vercel.app

## SUMMARY

Computer Science and Engineering undergraduate and aspiring software engineer with strong foundations in object-oriented programming and data structures. Experienced in building full-stack, .NET-based web and desktop systems, with research exposure in machine learning, NLP, and computer vision.

## EDUCATION

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| <b>American International University-Bangladesh (AIUB)</b><br><i>B.Sc. in Computer Science and Engineering   CGPA: 3.98 / 4.00</i> | Sep 2022 – Present<br>Dhaka, Bangladesh |
| <b>Shaheed Police Smrity College (SPSC)</b><br><i>Higher Secondary Certificate, Science   GPA: 5.00 / 5.00</i>                     | 2021                                    |
| <b>Mirpur Bangla School and College (MBSC)</b><br><i>Secondary School Certificate, Science   GPA: 4.89 / 5.00</i>                  | 2019                                    |

## EXPERIENCE

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| <b>Synovia Pharma PLC</b><br><i>Software Developer Intern</i>                                                                                                                                                                                                                                                                         | Feb 2026 – Apr 2026<br>Segun Bagicha, Dhaka |
| <ul style="list-style-type: none"><li>Developed full-stack internal web applications with ASP.NET MVC and C#, streamlining business workflows and operations.</li><li>Gathered requirements, iterated on prototypes, and presented solutions to senior stakeholders.</li><li>Provided technical IT support to office staff.</li></ul> |                                             |

## PROJECTS

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| <b>Bill Management &amp; Tracking</b>   C#, ASP.NET Core MVC, EF Core, SQL Server, Tailwind CSS<br>Built an enterprise bill-lifecycle system with department-scoped security, duplicate prevention, and role-based dashboards for bulk processing and automated email notifications.                   |
| <b>FileShare Inbox with Google Drive</b>   C#, ASP.NET Core MVC, Google Drive API v3, SQL Server, Tailwind CSS<br>Created a hybrid file-sharing inbox supporting anonymous uploads and authenticated downloads, integrating the Google Drive API for real-time existence checks and download auditing. |
| <b>eSignature Document Workflow</b>   C#, ASP.NET Core MVC, Tailwind CSS, PdfSharp, ImageSharp, SQL Server<br>Developed a sequential multi-signatory signing platform with transparent signature processing, coordinate-based PDF stamping, and workflow email alerts.                                 |
| <b>Courier Management Desktop Application</b>   C#, .NET (Windows Forms), SQL<br>Built a role-based courier management system with delivery tracking, automated charge calculation, and a SQL-backed dashboard.                                                                                        |
| <b>Air Quality Index (AQI) Web Application</b>   HTML, CSS, JavaScript, PHP, MySQL<br>Built a full-stack AQI web application with user authentication, city-wise AQI visualization, and session-based personalized features.                                                                           |
| <b>Village Simulation with OpenGL</b>   C++, OpenGL, GLUT<br>Developed an interactive 2D village simulation with day/night cycles, animated elements, keyboard controls, and time-based background audio.                                                                                              |
| <b>Travel Ticket Management System</b>   Java, Swing, JDBC, MySQL<br>Built a bus and train ticketing system with authentication, interactive route and seat selection, automated ticket generation, and an admin history dashboard.                                                                    |

## RESEARCH & PUBLICATIONS

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| <b>Discovering Research Trends in AI Subdomains Using TF-IDF and SciBERT-Based Clustering</b><br><i>ICCIT 2025, IEEE</i><br>Analyzed 1,800 AI research abstracts using TF-IDF and SciBERT embeddings across multiple clustering algorithms and evaluation metrics; presented at ICCIT 2025, Cox's Bazar, Bangladesh. |
| <b>Real-Time Detection of PCB and Soldering Defects Using Deep Learning Techniques</b><br><i>QPAIN 2026, IEEE</i><br>Contributed to a YOLO-based real-time PCB defect detection system, supporting dataset preparation, augmentation, experimentation, and evaluation using mAP, precision, and F1-score.            |

## TECHNICAL SKILLS

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| <b>Languages:</b> C#, C++, Java, Python, R                                                  |
| <b>Web &amp; Frameworks:</b> HTML, CSS, JavaScript, PHP, .NET, ASP.NET MVC, Tailwind CSS    |
| <b>Databases &amp; Tools:</b> SQL Server, MySQL, Git/GitHub, OpenGL                         |
| <b>Machine Learning &amp; AI:</b> scikit-learn, NumPy, pandas, PyTorch / TensorFlow (basic) |