# Jahidul Hasan
*Software Engineer | Data Scientist*

Experienced and results-driven programmer with a strong focus on advanced statistical analysis and machine learning, adept at leveraging a diverse range of technologies and methodologies. Meticulous attention to detail is a hallmark of my work, ensuring precision and accuracy in all aspects of data analysis. Proficient in assessing project requirements, designing robust research methodologies, implementing complex algorithms, interpreting findings, and effectively communicating results. A track record of successful leadership, teaching, and fostering collaboration within high-performing teams underscores my commitment to driving excellence in every endeavor.

## Professional Skills

Software Engineering | Data Science | Machine Learning | Data Analysis | Algorithm Development | Big Data Processing | Statistical Modeling | Data Visualization | Problem-Solving | Technical Writing | Effective Communication

## Technical Summary

- Proficient in web development frameworks including Django, Flask, FastAPI, and React
- Adept in utilizing regular expressions for pattern matching and text processing
- Experienced in crafting insightful blogs to share knowledge and insights
- Expertise in R, Python, SQL, and data visualization tools for comprehensive data analysis
- Advanced knowledge in IBM SPSS, IBM Cognos, Qlik, JASP, Qualtrics, and SurveyMonkey
- Familiar with a diverse set of programming languages, such as C++, Rust, JSON, JavaScript, CSS, HTML, C#, Objective-C, Unix, and Linux
- Proficiency in survey validation techniques, structural equation modeling, and machine learning, including cluster analysis, tree-based classification, and genetic programming methods

## Education

**M.S. Information Technology**                                        Mar 2024
*Data Analytics Graduate Certificate*
Washington University of Science and
Technology, Vienna, VA

**BS in Computer Science and Engineering**                            Dec 2020
*Software Development and Machine Learning*
Daffodil International University
Dhaka, Bangladesh

## Community Involvement

- **Director of Technology** *devICT*
- **Organizer/Facilitator** *Google Developer Group Wichita*
- **Ambassador** *Startup Wichita*
- **Founding Member** *DIUCPC*
- **Leadership Committee** *Alexandria Code and Coffee*

## Experience

**Programmer/Instructor** *PeopleNTech*                          Oct 2022 – Mar 2023
- Actively contributed to the development of web applications and RESTful APIs using the FastAPI framework. Demonstrated proficiency in designing and implementing efficient and high-performance backend solutions.
- Delivered comprehensive and engaging instruction in Java programming to students, covering core concepts, application development, and best practices. Focused on facilitating a solid understanding of Java as a programming language.

- Participated in curriculum development, creating educational materials, course outlines, and projects that aligned with industry standards and prepared students for real-world programming challenges.
- Conducted hands-on coding sessions and programming exercises, providing students with practical experience in Java programming.
- Evaluated and provided constructive feedback on student code submissions, aiding in their skill development and understanding of best coding practices.

**Software Engineer** *Xebecware Software Solution*                                    Jul 2019 – Aug 2021
- Played a key role in developing robust web applications and APIs using the Django framework, ensuring the delivery of high-quality and scalable software solutions.
- Designed and implemented database models, queries, and migrations using Django's ORM to efficiently store and retrieve data, maintaining data integrity and performance.
- Developed RESTful APIs with Django REST framework, enabling seamless communication between front-end applications and the backend.
- Implemented user authentication and authorization systems, ensuring secure access control for different user roles within web applications.
- Created custom Django middleware to add functionality, such as logging, security, or performance enhancements, at the application level.
- Successfully managed data migration tasks, ensuring smooth transitions and updates in database schema while minimizing disruption to ongoing services.
- Enhanced the Django admin interface for improved usability and to accommodate specific project requirements, streamlining content management for clients.
- Conducted unit testing and integration testing to identify and rectify issues in Django applications, maintaining code quality and reliability.
- Successfully deployed Django applications to production servers, ensuring smooth transitions and optimal performance in live environments.

**System Admin/Software Developer** *Wetube Network*                                    Jan 2016 – Jun 2019
- Managed and configured servers, including web servers, email servers, and DNS servers, to provide uninterrupted internet access for clients.
- Developed and maintained custom software applications to streamline network monitoring, automate routine tasks, and enhance network security.
- Wrote and maintained Python scripts to automate routine administrative tasks, reducing manual workload and improving efficiency.
- Implemented monitoring tools in Python and generated reports to track network performance and proactively identify potential issues or bottlenecks.

**Web Developer** *Smart Web Media Network*                                    Nov 2014 – Dec 2016
- Proficiently developed and maintained WordPress websites, leveraging themes, plugins, and custom code to create functional and visually appealing web solutions for clients.
- Created responsive and user-friendly websites by coding in HTML and CSS, ensuring compatibility across different browsers and devices to deliver an optimal user experience.
- Utilized PHP to build and customize the back-end functionality of websites, including dynamic content, user authentication, and database integration.
- Installed, configured, and customized WordPress plugins to extend the functionality of websites, enhancing features such as e-commerce, SEO, and social media integration.

**Lab Instructor** *Daffodil International University*                                    Sep 2013 – Dec 2019
- Led and facilitated hands-on lab sessions for multiple subjects, including Programming, Operating Systems, Artificial Intelligence, and Bioinformatics, ensuring that students had a comprehensive understanding of course material.
- Collaborated with faculty to enhance lab curricula, incorporating the latest industry-relevant tools, technologies, and best practices into the lab exercises.
- Provided technical support and guidance to students, assisting them in troubleshooting issues and solving problems that arose during lab sessions.
- Evaluated and graded student assignments, projects, and lab reports, providing constructive feedback to help students improve their skills.