Touhidul Alam **Seyam**

Bangladesh

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About Me

Innovative Software Engineer and Research Assistant with a strong foundation in Computer Science. Experience in full-stack development, machine learning, and academic research. Passionate about leveraging cutting-edge technologies to solve complex problems and drive advancements in the field of computer science and engineering.

Skills & Expertise

- **Frontend:** React, Tailwind CSS, Bootstrap, Material UI
- **Backend:** Node.js, Deno, Bun, Express, Flask
- **Fullstack:** TypeScript, Next.js, Django
- **Mobile App:** React Native, Expo
- **Database:** MongoDB, PostgreSQL
- **Cloud (BaaS):** Firebase, Supabase
- **AI:** TensorFlow, PyTorchI

Professional Experience

Hello World Communications Limited   *Chittagong, Bangladesh*

SOFTWARE ENGINEER   *July 2024 – Current*

- Designed and developed scalable web applications, collaborating with cross-functional teams to deliver high-quality software solutions for clients in various industries.
- Responsibilities include full-stack development, code reviews, and deploying applications to production environments.

BGC Trust University Bangladesh   *Chittagong, Bangladesh*

RESEARCH ASSISTANT   *July 2023 – Current*

- Support faculty-led research projects in computer science, focusing on machine learning, data analysis, and academic writing.
- Conduct experiments, publish research papers, and mentor junior students in research methodologies.

BGC Trust University IT Club   *Chittagong, Bangladesh*

EXECUTIVE TECH TEAM MEMBER   *2024 – Current*

- Help organize and execute technical workshops, coding competitions, and community outreach programs.
- Mentoring students, managing event logistics, and promoting technology awareness.

Self-employed   *Remote*

FREELANCE DEVELOPER   *March 2021 – Current*

- Delivered custom web applications and software solutions for clients across different sectors.
- Work includes requirements gathering, UI/UX design, full-stack development, and ongoing support.
- Organized and led multiple coding workshops and hackathons for university students.
- Developed and deployed web applications for small businesses and non-profits.

Education

BGC Trust University Bangladesh

Chittagong, Bangladesh
January 2023 – Expected Graduation: December 2026

B.Sc. (Hons) in Computer Science & Engineering

- Pursuing a Bachelor of Science (Honors) with a focus on software development, machine learning, and research.
- Actively involved in academic projects, research initiatives, and university tech clubs.
- Consistently achieving high academic performance and contributing to the university's research output through published papers and conference presentations.

Chattogram Cantonment Public College

Chattogram, Bangladesh
2021

H.S.C (Science)

GPA: 4.83

Gomdandi Pilot Model High School

Gomdandi, Bangladesh
2019

S.S.C (Science)

GPA: 5.00

Selected Research Publications

- Seyam, Touhidul Alam; Jowthi, Chandni Barua; Pathak, Abhijit; "Comparing pre-trained models for efficient leaf disease detection: a study on custom CNN", *Journal of Electrical Systems and Information Technology*, 11(1), 1–26, 2024. SpringerOpen.

- Seyam, Touhidul Alam; Pathak, Abhijit; "AgriScan: Next.js powered cross-platform solution for automated plant disease diagnosis and crop health management", *Journal of Electrical Systems and Information Technology*, 11(1), 45, 2024. Springer Berlin Heidelberg Berlin/Heidelberg.

- Hossain, Sazzad; Seyam, Touhidul Alam; Chowdhury, Avijit; Xamidov, Munis; Ghose, Rajib; Pathak, Abhijit; "Fine-tuning LLaMA 2 interference: a comparative study of language implementations for optimal efficiency", *arXiv preprint arXiv:2502.01651*, 2025.

- Avijit Chowdhury, Touhidul Alam Seyam, Moin Uddin Ahmed Babar, Chonchal Khan, Saima Akter; "Efficient Malware Classification Using Multiprocessing and Bag-of-Words Vectorization", *Advances in Networks*, 12(1), 19–28, 2025. Scientific Publishing Group.

- For a complete list of my publications, please visit: `https://scholar.google.com/citations?user=gRkTVYEAAAAJ&hl=en` or `https://www.researchgate.net/`

Professional Certifications

- **IBM Applied Data Science with Python** – Credly / IBM

- **IBM Deep Learning with TensorFlow** – IBM

- **University of Helsinki Elements of AI** – University of Helsinki

- **Python Essentials 1 & 2** – Cisco

- **Saylor Academy CS250: Python for Data Science** – Saylor Academy

- **Hackerrank Problem Solving (Basic + Intermediate)** – Hackerrank

- A comprehensive list of my certifications is available at: `https://github.com/Seyamalam/Certificates/blob/main/README.md`

Key Achievements

- Published multiple research papers in reputable journals, contributing to advances in machine learning, AI, and healthcare technology.

- Developed and launched several successful web applications and platforms for diverse clients and organizations.

- Secured a position as Research Assistant at BGC Trust University Bangladesh, actively contributing to cutting-edge research initiatives.

Notable Projects

- **API Whisperer:** A tool designed for API interaction and testing, streamlining development workflows. `https://api-whisperer-ebon.vercel.app/`

- **Zodic (Python):** A **Zod equivalent for Python** for data validation, ensuring robust data integrity. `https://pypi.org/project/zodic/`

- **Parishad Barta:** One of the fastest and best designed news websites in Bangladesh, featuring a modern UI, robust backend, and seamless user experience. `https://parishadbarta.com/`

- **Professor Sazzad:** A visually stunning, animated portfolio website for a university professor, showcasing advanced frontend techniques and interactive design. `https://www.professorsazzad.com/`

- **Luxe Retreats:** A beautiful, animated website for a tours company, combining immersive visuals with a user-friendly booking experience. `https://luxe-retreats.vercel.app/`

- **Ecom Five:** A super fast, well-designed e-commerce website with a clean layout, optimized performance, and modern shopping features. `https://ecom-five-rho.vercel.app/`

- **Gravity Gym:** A modern fitness website providing information about gym services, classes, and membership options. `https://gravitygym.vercel.app/`

Hobbies and Interests

- Coding and building open-source projects

- Participating in hackathons and coding competitions

- Reading research papers on machine learning and AI

- Like playing Cities Skylines

- Volunteering for tech community events

- Recreating existing tech because why not.

Languages

- Bengali: Native

- English: Fluent

References

CTO   *Hello World Communications Limited*

Suvra Dev Kar

- Email: suvro@helloworldbd.com

Assistant Professor   *Sonargaon University*

Abhijit Pathak

- Email: a.pathak_cse@su.edu.bd

Professor *Academic Institution*

Professor Sazzad

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