

JAWAD ZAMAN

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Portfolio: www.jawadzaman.com • [GitHub](#) • [LinkedIn](#)

EDUCATION

St. Joseph's University New York

Bachelor of Science (Honors), Triple Major

Computer Science • Mathematics • Business Administration | GPA: 4.00 | Dean's List

Brooklyn, New York

Expected May 2027

Lakeland University Japan

Study Abroad Exchange Program | GPA: 4.00 | Dean's Honors List

Tokyo, Japan

Fall 2025

TECHNICAL SKILLS

AI/ML: PyTorch, TensorFlow, Scikit-Learn, Transformers, OpenCV, YOLO, NLTK, spaCy, Keras, Computer Vision, NLP, Bias Mitigation, Random Forest

Programming Languages: Python, JavaScript, TypeScript, C/C++, C#, Java, SQL, R, Solidity, Bash, PowerShell

Full-Stack: React, Next.js, Vue.js, Angular, Node.js, Express.js, Django, Flask, FastAPI, REST/GraphQL APIs, HTML5, CSS3, Tailwind CSS, Bootstrap

Cloud & DevOps: AWS, Docker, Kubernetes, Git, GitHub/GitLab, CI/CD, Jenkins, Postman, Linux/Ubuntu, VS Code, PyCharm, Jupyter

Databases: PostgreSQL, MySQL, MongoDB, SQLite, Redis, Firebase

Blockchain & Web3: Ethereum, Solidity, Web3.js, IPFS, MetaMask, Smart Contracts

Data Science & Visualization: Pandas, NumPy, Matplotlib, Seaborn, SciPy, Plotly, Tableau, Power BI, Excel

Game Development & Hardware: Unity/C#, Unreal Engine, Blender, WebGL, Arduino, Raspberry Pi, ESP32, Microcontrollers

PROFESSIONAL EXPERIENCE

New York Academy of Sciences

Scientist-in-Residence (SIR)

New York, New York

August 2025–Present

- Designed and delivered project-based Arduino robotics curriculum for 120+ NYC high school students, with materials adopted by the SIR program
- Created hands-on lessons emphasizing accessibility, sustainability, and real-world problem solving to engage underrepresented students in STEM
- Mentored high school seniors through technical projects, fostering practical engineering skills and career readiness in robotics and AI systems

Ecological Society of America

Treasurer

Washington, D.C.

October 2025–Present

- Manage international finances for membership dues, conference registrations, and research initiatives supporting 5,000+ members globally
- Ensure transparent fiscal stewardship and accurate financial reporting to advance ecological science and policy initiatives
- Collaborate with executive leadership on budget planning and resource allocation for scientific programs and international collaborations

Nexora Solutions

Full-Stack Software Developer

Remote, New York

January 2024–August 2025

- Developed responsive websites, web applications, and mobile platforms with custom functionality using React, Node.js, and full-stack frameworks
- Optimized AWS infrastructure reducing server costs by 40% while implementing performance optimization for financial platforms
- Led development workflows, coordinated team deliverables, and provided end-to-end IT support including hosting configuration and deployment

Adamjee Cantonment College Robotics Club

Dhaka, Bangladesh

Director of Olympiads

January 2023–December 2024

- Orchestrated national-level STEM Olympiads in robotics, mathematics, and sciences for 500+ participants, managing logistics, and judging panels
- Increased medal count by 35% through curriculum-aligned training modules, mentoring sessions, and strategic university partnerships
- Collaborated with external partners to align events with national education standards, enhancing student readiness and competitive performance

RESEARCH & PUBLICATIONS

“Benchmarking Neural Machine Translation Using Open-Source Transformer Models” | NRHC Illuminate Journal 2025

Published first-author study evaluating T5/MBART/Helsinki-NLP on medical/legal texts to reduce life-threatening translation errors; awarded **NRHC "Paper of the Year 2025"**

“Emotions in the Eye of the Machine: Accuracy, Bias, and Ethical Implications of AI Facial Analysis” | NRHC Annual Conference 2026

Investigated accuracy disparities in facial recognition systems for non-Western populations; developed mitigation strategies for inclusive UX design

“Comparing Machine Learning Models for Environmental Monitoring using Remote Sensing Data” | ESA Annual Meeting 2025

Applied LightGBM/Random Forest to NEON remote sensing data predicting forest biomass; contributed to ESA's open-source forecasting toolkit

AWARDS & HONORS

• NRHC "Paper of the Year" (2025) | Top research recognition across Northeast U.S. honors institutions

• NASA Space Apps Global Nominee (2024, 2025) | Top 0.5% of 30,000+ global participants

• Xylem Global Innovation Challenge University Track First Place (2025) | Led RESQMAP flood-rescue AI among 800+ global teams

• Columbia Ivy League DevFest "Hot Sauce" Hackathon Winner (2025) | Forager on the Go AI species-identification app

• ACM Hackathon Champion (2025) | Led rapid development of immersive 3D game with Unity/C#

• Stony Brook HopperHacks "Treasure Trove of Talent" Best Project (2025) | NeuroNudge AI communication tool

• NRHC Scholarship of Equity & Access (2025) | Selected from 200+ applicants for ethics-focused research leadership

• Outstanding Student Org Leader (2025) | St. Joseph's University | Honored for leadership across Go Green, Book, and Computer Clubs