

JAWAD ZAMAN

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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) <ul style="list-style-type: none">Designed and delivered project-based Arduino robotics curriculum for 120+ NYC high school students, with materials adopted by the SIR programCreated hands-on lessons emphasizing accessibility, sustainability, and real-world problem solving to engage underrepresented students in STEMMentored high school seniors through technical projects, fostering practical engineering skills and career readiness in robotics and AI systems	New York, New York August 2025–Present
Ecological Society of America Treasurer <ul style="list-style-type: none">Manage international finances for membership dues, conference registrations, and research initiatives supporting 5,000+ members globallyEnsure transparent fiscal stewardship and accurate financial reporting to advance ecological science and policy initiativesCollaborate with executive leadership on budget planning and resource allocation for scientific programs and international collaborations	Washington, D.C. October 2025–Present
Nexora Solutions Full-Stack Software Developer <ul style="list-style-type: none">Developed responsive websites, web applications, and mobile platforms with custom functionality using React, Node.js, and full-stack frameworksOptimized AWS infrastructure reducing server costs by 40% while implementing performance optimization for financial platformsLed development workflows, coordinated team deliverables, and provided end-to-end IT support including hosting configuration and deployment	Remote, New York January 2024–August 2025
Adamjee Cantonment College Robotics Club Director of Olympiads <ul style="list-style-type: none">Orchestrated national-level STEM Olympiads in robotics, mathematics, and sciences for 500+ participants, managing logistics, and judging panelsIncreased medal count by 35% through curriculum-aligned training modules, mentoring sessions, and strategic university partnershipsCollaborated with external partners to align events with national education standards, enhancing student readiness and competitive performance	Dhaka, Bangladesh January 2023–December 2024

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