Nafiul Khalid

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Education

Florida International University   Miami, FL
　　Bachelor of Science in Computer Science   (Honors College)   (GPA 3.81)   Aug. 2023 - May 2027
　　<u>*Courses:*</u> Data Structures, Computer Architecture, Discrete Structures, Programming II, Programming I, Calculus II, Physics with Calculus II, CS50X, CodeInPlace

Technical Skills

- **Languages**:   Java (DSA), Python, HTML5, CSS3, JavaScript, TypeScript, SQL
- **Frameworks**:   Node.js, Express.js, Ejs, Bootstrap, Tailwind CSS, MongoDB, React, REST

Projects

Portfolio | **JavaScript, HTML, CSS, Bootstrap, Github Page, GSAP**   November 2024
- Utilizing Github page for hosting, developed my website segmented in five webpages

HackEnzyme | **JavaScript, HTML, CSS, Bootstrap, 3Dmol.js, Python, Jupyter Nootbook**   October 2024
- Developed a bioinformatics tool to predict enzyme sequences from chemical structures by leading full-stack development, as HackHarvard 2024 Final Project
- Enabled researchers to visualize enzyme structures and predict sequences using SMILES inputs, providing valuable insights for drug discovery, gene therapy, and personalized medicine

GuiltBytes | **JavaScript, HTML, CSS, Bootstrap**   September 2024
- Developed an obesity-awareness platform by leading the project & coding all functionalities for ShellHacks-2024.
- Unhealthy food logging system with BMI calculator & user-specific reports, by implementing front-end to provide real-time feedback on user's dietary habits

Paint50 | **Python, JavaScript, HTML, CSS, Bootstrap, Flask**   July 2024
- Developed a Full-Stack painting website inspired by MS Paint by utilizing Flask for backend routing, JavaScript for drawing functionality, resulting in an interactive & responsive user interface as Harvard CS50x Final Project

Simon-Says-Game | **JavaScript, HTML, CSS**   May 2024
- Recreated the classic memory game with JavaScript for game logic - sequence generation & player input validation - ensuring engaging user experience & transitions

Experiences

Student Research Assistant   **(University of Dhaka)**   Jun 2020 - Nov 2024
- Published 2 Research papers, presented in 3 scientific conferences
- Exhibited strong academic, literature review, & data analysis skills by assisting in preparation of a handbook on the healthcare system of Bangladesh & collaborating on a philosophical review of power practices in South Asia

Data Entry Assistant Intern   **(Dhaka Specialized Hospital)**   Jul 2022 - Oct 2022
- Sorted & compiled weekly hospital data reports - patient records & treatment details
- Collaborated with hospital staffs for maintaining digital databases of hospital records

Data Entry Assistant Intern   **(Pan de Asia Limited)**   Jul 2022 - Sep 2022
- Recorded financial records, invoices, & transaction details by managing account data & event information

Publications

Khalid, N. (2022). Comparative Performance of Quadcopters and Fixed-Winged Drones in Automation of Bangladesh Agriculture. London Journal of Research in Science, 22(11), 1-11. DOI: 10.17472/LJRS
- Led the research project by designing methodologies & data analysis with 290 hours & 6 days field data collection. Scientific Conferences Accepted: ICSES-2022, ICONEST-2023, ILSET-2024

Khalid, N. (2022). Perception and Practice on Flying Kites as Traditional Cultural Game: A study in Bangladesh. London Journal of Research in Humanities & Social Sciences, 22(13), 25-33. DOI: 10.17472/LJRHSS.
- Led the external validation, serving 270 hours, designing a matrix of 75 literature reviews & pilot studies, & publishing the pioneer paper on Bangladeshi traditional kites. Conferences Accepted: ICSES-2022, ICONSES-2023

Awards

- Linkedin Top **Software Development** Voice (<3% quality contributors)
- **Future of Florida Summit - 2024** (Florida's largest student-run policy conference) (2nd Runner Up Team)
- **Undergraduate Research Florida International University Conference -2024** (Poster Presentation)
- **HackHarvard 2024** - Annual collegiate Hackathon of Harvard University (Health Track)
- **ShellHacks 2024** - Florida's Largest Hackathon (Florida International University) (Web & Mobile Dev Track)