

Naful Khalid

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Florida International University

Miami, FL

Bachelor of Science in Computer Science (Honors College) (GPA 3.81)

Aug. 2023 - May 2027

Courses: Data Structures, Computer Architecture, Discrete Structures, Programming II, Programming I, Calculus II, Physics with Calculus II, CS50X, CodeInPlace

Technical Skills

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

Projects

- HackEnzyme** | JavaScript, CSS, HTML, 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, CSS, Bootstrap, HTML 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 - Present
- 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
- Staff Reporter** (PantherNow Newspaper, FIU) Feb 2024 - Jun 2024
- Strengthened communication & writing skills, ensuring timely publications of multiple deadlines focusing on developing non-technical soft skills - teamwork, attention to detail, project management
- 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)