Antonio Karam

+1 574 621 1852 | akaram@nd.edu | linkedin.com/in/antonio-karam | antoniokaram.com

EDUCATION

University of Notre Dame | Notre Dame, IN   May 2025
*Bachelor of Science, **Dean's List all semesters***   ***GPA: 3.96***
Major: Computer Engineering | Minor: Engineering Corporate Practice | Concentration: Cyber Security

EXPERIENCE

University of Notre Dame | Notre Dame, IN   May 2023 – August 2023
Software Engineering Intern
- Upgraded **Ruby** and **Rails** applications to ensure **software security**, while creating unit tests and documentation.
- Built a **full stack** web application using a **custom framework**, that allows faculty, students, and staff to find data storage and management technologies that fit their needs and the university's **information security** constraints.
- Utilized **design thinking** strategies to develop integrated software that improves the student experience.

OneAmerica | Indianapolis, IN   May 2022 – August 2022
AnalytiXIN Software & Data Engineering Intern
- Created a tool for analysts and brokers to identify characteristics that make insurance plans profitable in **Python**.
- Applied data processing techniques, machine learning, and visualizations to real world data with **ArcGIS**, **SVM** for **NLP**, data preprocessing, **Pandas**, and **Tableau** while navigating relational databases with **SQL**.

LEADERSHIP AND ACTIVITIES

Engineers Without Borders | Notre Dame, IN   September 2021 – Present
Chapter Vice President – Chapter Treasurer – Past Projects, Team Lead
- Manage the chapter's resources and raise capital for self-funded implementation and assessment trips to Ecuador
- Spearhead design and brainstorm sessions and review test data to make go/no-go decisions on projects.
- Establish Monitoring & Evaluation processes to guide the team through tests and assessment data analysis.

Student International Business Council | Seattle, WA - Chicago, IL   January 2023 – April 2023
Microsoft Travel Team
- Explored opportunities within the embedded finance industry through in-depth market and technical analyses.
- Engineered a model Buy Now Pay Later interface within the XBOX store that allows users to pay in installations.
PricewaterhouseCoopers (PwC) Travel Team
- Analyzed a **cyber security** breach for a big box retailer and made recommendations across the company's executive structure relating to social engineering, data security, privilege escalation, and network segmentation.

CS For Good | Notre Dame, IN   September 2021 – April 2023
Project Management Team Lead
- Led a team that wrote a selection algorithm that assigns club members to different community service projects.
- Programmed a web application, in **Python** and **Django,** to display relevant statistics from the project applications.

RELATED COURSEWORK AND PROJECTS

Sawwit Voter Aid | Beirut, Lebanon   May 2023 – Present
Founder & Lead Software Engineer
- Founder of Sawwit, a mobile app built using **Dart**, that informs Lebanese youth about candidates' campaigns.

Dunne Hall Website | University of Notre Dame   May 2022 – Present
Full Stack Developer
- Design and manage the **dunnehall.com** website to promote the culture and values of the Dunne Hall community.

TECHNICAL AND LANGUAGE SKILLS

Technical: C/C++, Python, Java, Git, Dart, Ruby, HTML, CSS, JavaScript, React, TypeScript, Next.js, Bootstrap, Tailwind, Firebase, Docker, AWS, SQL, MATLAB, Bash, Assembly, Verilog | Tableau, Adobe Suite, Figma
Language: English – Near Native, Arabic – Native Speaker, French – Native Speaker