Antonio Karam

Driven and skilled computer engineering student interested in software engineering and developing innovative solutions.
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EDUCATION

University of Notre Dame | Notre Dame, IN   Expected 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
Software Engineering Intern   May 2023 - Aug 2023
- Upgraded 10 **Ruby** and **Rails** applications to ensure **software security** and created unit tests with documentation.
- Built a **full stack** web application using a **custom framework** that provides faculty, students, and staff access to over 20 data storage and management technologies that can fit their needs and **information security** constraints.
- Conducted **design thinking** interviews with 8 stakeholders to develop integrated student experience software.

OneAmerica | Indianapolis, IN
AnalytiXIN Software & Data Engineering Intern   May 2022 - Aug 2022
- 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 over 1,000,000 real-world data points with **ArcGIS**, **SVM** for **NLP**, preprocessing, **Pandas**, and **Tableau** while navigating **SQL** relational databases.

LEADERSHIP AND ACTIVITIES

Engineers Without Borders | Notre Dame, IN
Chapter Vice President – Chapter Treasurer – Past Projects, Team Lead   Sep 2021 - Present
- Spearhead design and brainstorm sessions with over 50 members to make go/no-go decisions on projects.
- Consolidated Monitoring & Evaluation processes to guide that team through tests and assessment data analysis.
- Handled the chapter's resources, raising $10,000 in capital for implementation and assessment trips to Ecuador.

Student International Business Council | Seattle, WA - Chicago, IL
Microsoft Travel Team   Jan 2023 - April 2023
- 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 increases buyer conversion by 65%.
PricewaterhouseCoopers (PwC) Travel Team
- Advised a big box retailer after a **cyber security** breach by assembling 8 recommendations across the company's executive structure relating to social engineering, data security, privilege escalation, and network segmentation.

CS For Good | Notre Dame, IN
Project Management Team Lead   Sep 2021 - April 2023
- Led a team of 5 in constructing selection algorithms that assign over 300 members to community service projects.

RELATED COURSEWORK AND PROJECTS

Sawwit Voter Aid | Beirut, Lebanon
Founder & Lead Software Engineer   May 2023 - Present
- Launched Sawwit, a **Dart** mobile app, that details parliamentary candidate campaigns to young Lebanese voters.

Dunne Hall Website | University of Notre Dame
Full Stack Developer   May 2022 - Present
- Upgraded the **dunnehall.com** website promoting Dunne Hall's community values. Reduced load times by 96%.

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