

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 May 2023 – Present
Software Engineering Intern

- Upgraded 10 **Ruby** and **Rails** applications to ensure **software security** and created unit tests with documentation.
- Developed a **full stack** web application using a **custom framework** that provides faculty and students, access to over 20 data storage and management technologies that can fit all needs and **information security** constraints.
- Conducted **design thinking** interviews with 8 stakeholders to develop integrated student experience software.

OneAmerica Financial Partners | Indianapolis, IN May 2022 – Aug 2022
AnalytiXIN Software & Data Engineering Intern

- Built 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 Sep 2021 – Present
Chapter Vice President – Chapter Treasurer – Past Projects, Team Lead

- Spearhead design and brainstorm sessions with over 50 members to make go/no-go decisions on projects.
- Consolidated Monitoring & Evaluation processes to guide the team through tests and assessment data analysis.
- Budgeted the chapter's resources, raising \$10,000 in capital for implementation and assessment trips to Ecuador.

Student International Business Council | Seattle, WA - Chicago, IL Jan 2023 – Apr 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 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 Sep 2021 – Apr 2023
Project Management Team Lead

- 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 May 2023 – Present
Founder & Lead Software Engineer

- Launched Sawwit, a **Dart** mobile app, that details parliamentary candidate campaigns to young Lebanese voters.

Dunne Hall Website | University of Notre Dame May 2022 – Present
Full Stack Developer

- 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