Antonio Ibarra

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EDUCATION

Northern Illinois University *DeKalb, Illinois*
B.S. in Computer Science w/Minor in Applied Mathematics *Expected Graduation, May 2027*
Emphasis: Computational Software
GPA: 3.704/4.00
Relevant coursework: Intermediate C++ programming, UNIX & Network programming, Data Structures and Algorithms, Databases, Discrete Mathematics, Calculus, Assembly (in progress), Intro to Software Engineering (in progress), Calculus ll (In progress) Opensource/GitHub Honors Seminar

HONORS & AWARDS | SKILLS & INTERESTS | TECHNICAL SKILLS

Technical skills: C++, C, HTML, PHP, SQL, Linux/Unix, MariaDB, Assembler – VISTATN3270 (in progress)
Honors & Awards: Northern Illinois University Dean's List, NIU Merit Scholarship
Languages: Fluent in English, Spanish
Interests: Weightlifting (4 years), Chess (8 years), Meditation (2 years),

PROJECTS

Reverse Engineered Vector *February 2, 2025*
- Designed and implemented a templated dynamic array in C++ to mimic the STL vector.
- Implemented dynamic resizing and custom memory allocation strategy to handle up to 10,000 elements with constant-time amortized push_back.
- Created methods for push_back, pop_back, indexing, and capacity management.
- Ensured memory safety by applying deep copying and destructor logic, preventing leaks across 100+ stress test cases.

Spells-R-Us | Full stack Web store *May 10, 2025*
- Developed a fully functioning e-commerce website in a team of four, featuring user authentication, order history, and live tracking updates.
- Implemented a dynamic checkout and shipping workflow that is integrated with a SQL database to update inventory, orders, and shipping status in real time.
- Collaborated with teammates using Git/GitHub to manage version control and streamline contributions across front-end and back-end components.
- Designed database-driven features enabling personalized user accounts, purchase history tracking, and automated inventory management.

WORK EXPERIENCE

Panda Express *DeKalb, Illinois*
Kitchen Help *October 2024 – Current*
- Follow and make recipes to prep food items according to Panda Express specifications.
- Prepare food items by cleaning and using proper prep techniques of bulk products for use in all recipes.

Huskie Academic Success Center, NIU *DeKalb, Illinois*
Academic Tutor *January 2024 – May 2024*
- Provided academic support in courses including College Algebra, Discrete Mathematics, Calculus 1, Communications, College English, Intro to C++, Intermediate C++.
- Assisted students with course-related questions and fostered academic success throughout the semester.

INVOLVEMENT

STEM Fest Volunteer *September 20, 2025*
- Assist vendors with moving in and setting up booths
- Answer questions for attendees providing the layout of the entire festival

Huskie Hackers *September 2025 – Current*
- Engage in weekly meetings to plan and organize upcoming hackathons, contributing ideas for event structure and project focus.
- Participate in hackathons to build projects, apply and expand technical skills in software development and problem-solving.
- Develop software solutions during hackathons using C++, Python, SQL, HTML, JavaScript, and web technologies, applying technical knowledge to real-world problems.
- Collaborate with teammates to brainstorm, design, and prototype innovative solutions, enhancing group projects and strengthening teamwork skills.

NIU ACM *September 2025 – Current*
- Participate in weekly meetings and special interest groups focused on mainframe programming (IBM Z, assembler) and web development.
- Attend presentations from guest speakers to expand knowledge of industry practices, tools, and career pathways.
- Collaborate with fellow Computer Science majors to strengthen the NIU CS community and build valuable professional connections.