Daniel (Danny) Morsovillo

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Education

Illinois State University Expected May 2027

Bachelor of Science in Computer Science (GPA: 3.67 / 4.00) *Normal, IL*

- **Relevant Coursework:** Algorithms and Data Structures (C++), Computer Organization and Architecture, Systems Development, Linear Algebra, Discrete Mathematics, Intro to IT Professional Practice.

Experience

Oak Lawn Marketing International August 2025 – Now

Student Developer *Normal, IL*

- Collaborated with a cross disciplinary team of ten computer science and international business students to develop an automated workflow for the largest direct-to-consumer company in Japan, Shop Japan.
- Designed and implemented creative solutions to collect and process data on trending e-commerce products.

Projects

Make Math Count Today @makemathcounttoday.com | *React.js, HTML/CSS*

- Developed and deployed a web application for an educational instructor's middle school math workshop
- Aimed to inform instructors and parents on ways to propel student's success in math.

fairwayd iOS Application | *In progress, SwiftUI, Supabase - Illinois State Mobile App Contest*

- Currently developing an iOS application that enables users to discover and evaluate golf courses using live data from a RESTful API.
- Implementing dynamic course detail pages with ratings, slope, par, tee information, images, and user reviews.
- Integrating authentication flow and refining UI/UX for a production-ready experience.

Ray Tracer Rendering Engine | *C++, SFML*

- Developed a physically based ray tracing engine capable of rendering 3D scenes with realistic lighting, reflection, and refraction based up Peter Shirley's *Raytracing in One Weekend*.
- Implemented mathematical models for camera optics, materials (Lambertian, Metal, Dielectric), and light scattering using vector algebra and recursion.
- Integrated an SFML-based PPM image viewer to visualize generated frames and debug color mapping and material properties in real time.

Technical Skills

Languages: Java, C++, Python, Swift, HTML/CSS
Technologies: React.js, Flask, Git, Supabase, Excel
Concepts: Object Oriented Programming, Mobile Application Development, Database Management

Extra Curricular

Association for Computing Machinery

- Provides students with educational resources to grow in the fields of IT, software engineering, cyber-security, and web development.

Awards & Honors

iGrow Tech Scholarship Recipient Feb. 2025

Jesse E. Fell Scholarship Recipient Aug. 2024

Illinois State University Honors Program Aug. 2024

Illinois Spanish Seal of Biliteracy April 2024