

# Gina-Marie Elbanna

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## SUMMARY

Recent computer science graduate with a math minor, strong problem-solving skills, and hands-on full-stack development experience. Passionate about building scalable, user-friendly applications that solve real problems.

## EDUCATION

### Bachelor of Science in Computer Science

May 2025

Monmouth University | West Long Branch, NJ

GPA: 3.9/4.0

*Relevant Coursework:* Advanced Object-Oriented Programming (C++) , Cyber Security, Computer Networks, OS, Game Dev

### Bachelor of Science in Computer Science

Sep 2022 - May 2023

New Jersey Institute of Technology | Newark, NJ

Obtained 25 credits

*Relevant Coursework:* Advanced problem-solving in Java

## Honors & Awards

- Dean's List: 2022, 2024, 2025
- Upsilon Pi Epsilon (International Honor Society for Computing & Information)

## PROJECTS

### Web Journal

Present

- Designed a digital journal using HTML5, CSS3, and JavaScript with a flipbook feel using Canvas 2D API and Flipbook.js
- Integrated Firebase Firestore and Authentication to manage user data for 20+ users

### Tutoring web app

May 2025

- Collaborated with a team of 5 students to develop a secure authentication system with role-based access, integrating a custom login UI with a NoSQL Firestore database for credential storage and session management
- Co-designed dynamic scheduling features for 30+ students and tutors, enabling real-time availability matching
- Contributed to implementing best practices in security and cloud-based data storage, laying groundwork for scalability
- Project selected as a featured demo by university faculty for technical completeness and clean UI design

## EXPERIENCE

### Research Assistant

Oct 2024 - May 2025

Monmouth University | West Long Branch, NJ

- Conducted research on formal verification to evaluate relational quantitative properties in programs
- Improved efficiency of verification tools by applying learned techniques to existing frameworks

### Lab Assistant for Computer Science

Oct 2023 - May 2025

Monmouth University | West Long Branch, NJ

- Provided coding support for Python and Java to 5–7 students regularly
- Simplified core algorithms and data structure concepts through peer teaching and whiteboard explanations

### Instructor

Aug 2024 - Sep 2024

iCode | Shrewsbury, NJ

- Taught robotics fundamentals and coding concepts to six students aged 5–12
- Guided students in building and programming 14 VEX robots using VEX IQ block-based code
- Introduced basic debugging strategies to help students identify and resolve coding errors independently

## SKILLS

**Languages:** Java, C++, Python, JavaScript, HTML/CSS, SQL, Kotlin, OCaml, R

**Tools & Tech:** Firebase, GitHub, Wireshark, MySQL, PHP

**Environments:** VS Code, Eclipse, Visual Studio, Android Studio

**Core Skills:** OOP, debugging, UI/UX, NoSQL, data structures, networks, communication, team-work

## LEADERSHIP & INVOLVEMENT

- President of the Monmouth Gamers United Club
- Member of the IEEE/ACM Student Chapter