

# Jacob Moawad

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## EDUCATION

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### New Jersey Institute of Technology

Bachelor of Science, Computer Science — GPA: 3.59

Newark, NJ

Sep 2024 – Dec 2026 (Expected)

### Ain Shams University

Bachelor of Science, Computer Science — GPA: 3.7

Cairo, Egypt

Sep 2022 – Jun 2024

## EXPERIENCE

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### Software Engineer Intern

Aug 2023 – Sep 2023

Wxora

Cairo, Egypt

- Collaborated within a four-member engineering team to design and develop a full-stack e-commerce web application using the MERN stack (MongoDB, Express.js, React.js, Node.js), applying software engineering principles from planning to deployment.
- Assisted in building and integrating RESTful APIs for authentication, product management, and order processing, ensuring reliable communication between front-end and back-end components.
- Supported the integration of OpenAI's API to deliver AI-driven recommendations and interactive features, enhancing user engagement and showcasing modern web innovation.

## PROJECTS

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**Portfolio Website** | *Next.js, TypeScript, Vanilla CSS, Vercel*

Spring 2025

**URL:** <https://jacob-resume.vercel.app/>

- \* Developed a responsive personal portfolio using Next.js and TypeScript to showcase technical projects with a clean, modern interface.
- \* Implemented animations, light/dark mode, and mobile scaling through custom CSS for an engaging and accessible user experience.
- \* Optimized performance with component-based architecture, modular code, and image compression, achieving fast rendering and seamless deployment on Vercel.

**Digital Wallet System** | *C++*

Spring 2024

- \* Built a C++ digital wallet app with a Qt-based GUI, simulating core banking features like registration, authentication, deposits, withdrawals, transfers, and transaction history.
- \* Applied key data structures — arrays, linked lists, hash tables, stacks, queues and file systems — to ensure efficient data storage, retrieval, and transaction management.
- \* Implemented account verification and input validation to prevent unauthorized access and maintain data integrity across user operations.
- \* Collaborated in a two-person team to debug transfer logic and refine money request functions, testing multiple scenarios to improve reliability and accuracy.

**Self-Diagnosis System** | *C++*

Spring 2023

- Built a GUI-based self-diagnosis tool using C++ and SFML, allowing patients to select symptoms from a file-based database and receive probability-based disease predictions.
- Implemented a custom matching algorithm and synchronized data between patient and doctor portals, enabling real-time notes and prescription sharing.
- Achieved 4 place out of 60 + projects in a university competition judged by an IBM representative.

## TECHNICAL SKILLS

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**Languages:** Java, C++, Python, JavaScript, TypeScript

**Frameworks and Tools:** React.js, Next.js, Express.js, Node.js, Qt, SFML, Git, GitHub, Vercel, VS Code, HTML, CSS

**Databases:** MySQL, MongoDB, File Systems

**Relevant Coursework:** Data Structures, Object-Oriented Programming, Data Science, Operating Systems, Databases, System Design, Software Development Lifecycle

**Professional Skills:** Team Management, Workflow Optimization, Problem Solving, Communication, Leadership