# Assem Sadek  *Software Engineer*

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## Professional Summary

A proactive and detail-oriented Senior Computer Engineering student with strong proficiency in front-end development and solid experience in back-end development. Skilled in React.js, Next.js, TailwindCSS, Node.js, and Python. Seeking a summer internship to apply my skills in a dynamic and growth-oriented environment.

## Education

**Senior Computer Engineering Student**
*Cairo University Faculty of Engineering*
2025 | Cairo, Egypt
GPA: 3.02

## Skills

**Front End Web Development**  ● ● ● ● ●
React.js, Next.js, JavaScript, HTML5, CSS3, Tailwind CSS ,Bootstrap ,Responsive Design, Cross-Browser Compatibility, UI/UX Design.

**Back End Web Development**  ● ● ● ● ○
Node.js, Express.js, Python, C++, RESTful APIs, Database Management, SQL, NoSQL, MongoDB, Microservices.

**Desktop Application Development**  ● ● ● ● ○
Python, C++, and C#.

## Courses

**Programming Techniques**
*Cairo University Faculty of Engineering*
Concepts of Object-Oriented Programming (OOP) and software modularity.

**Data Structures and Algorithms**
*Cairo University Faculty of Engineering*
Various types of data structures in detail, and all types of sorting and searching algorithms, Performance Optimization.

**Database Systems**
*Cairo University Faculty of Engineering*
ER models, Relational models and SQL.

## Additional Courses

**Software Engineering**
*Cairo University Faculty of Engineering*
Agile Development, Scrum, CI/CD (Continuous Integration/Continuous Deployment), Software Development Life Cycle (SDLC), API Integration, Unit Testing, Full Stack Web Development, and Documentation.

**Distrbuted Application Development**
*Cairo University Faculty of Engineering*
Understanding the main concepts of application distribution, Cloud Computing (Azure and AWS), Microservices Architecture, system Scalability and Fail Proofing.

## Projects

**Eventbright Clone (MERN Stack)** ⍈
Fully functional clone of the website eventbright.com.

**Pediatric Pulse Web App (Next.js) (FastApi)** ⍈
Fully functional full stack web application of a Pediatric Clinic, complete with a patient portal, a doctor portal, a staff portal, and an admin panel. Full appointment booking for patients and staff. Full admin control for admins.

**Image Mixer (Python)** ⍈
Desktop app that combines the Fourier Transform components of 4 input images to create an output image.

**Multi-Port & Channel Signal Viewer (Python)** ⍈
Desktop app designed to mimic the ICU monitor in a hospital.

**Multiple Image Processing Algorithms(Python)** ⍈
A comprehensive image processing application developed using PyQt, featuring multiple algorithms for edge, corner, line, and ellipse detection, and face reconstruction.

**Sampling Theory Studio (Python)** ⍈
Desktop app that highlights the importance of sampling an analog signal and how different frequencies in sampling affect the reconstruction of the signal