

# Yaser Mohamed Shaban

Cairo, Egypt | yasershaban03@hotmail.com | +20 1144652300 | github.com/NightMare489

linkedin.com/in/yasermshaban

## About Me

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Computer Science graduate from the Arab Academy for Science, Technology, and Maritime Transport with solid experience in backend and software development, and a growing focus on AI and computer vision. Proficient in C++, Python, and JavaScript, with a consistent drive to learn, collaborate, and tackle real-world technical challenges.

## Education

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**Arab Academy for Science, Technology, and Maritime Transport**, Bachelor of Computer Science. Oct 2021 – Jul 2025

- Ranked 1st among all Computer Science graduates, GPA: 3.96/4.0

**VŠB - Technická univerzita Ostrava**, Erasmus+ Student – Ostrava, Czechia Feb 2024 – Jun 2024

- Selected for Erasmus+ mobility program at VŠB-TUO, gained international academic and cultural experience in a diverse environment.

## Experience

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**Backend Developer**, Back Benchers Studio – Egypt Jul 2023 – Jun 2024

- Collaborated with a team of experienced developers, designers, and project managers on more than 7 projects to deliver high-quality, fully functional websites tailored to client needs in a web development startup.

## Projects

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### SmartSafety: AI-Driven Workplace Hazard Detection (Bachelor Project)

- Developed an AI-driven system (YOLOv11, IoT) for real-time hazard detection, PPE, and environmental risk assessment.
- Built a high-performance web dashboard (SvelteKit, Rust, MongoDB) with an AI assistant for safety insights.
- Awarded 2nd Place at UEA7 (80+ projects); secured ITAC/ITIDA funding for innovative industrial safety.

### GoPilot

- Built a web app simplifying airport transport booking, integrating maps (OpenStreetMap) and email notifications.
- Contributed to the full-stack development, designing and implementing frontend (HTML/CSS/JS) and backend (PHP/SQL).

### Window Master

- Made a unique 2D survival game (C++/OpenGL) with a dynamically resizing window for a white circle player vs. rectangles.
- Designed real-time movement, projectile shooting, and enemy AI with visual states and scalable, modular architecture.

### Accounting Project

- Developed a comprehensive financial management system (Node.js, Express, MongoDB) for multi-account tracking and transaction auditing.
- Implemented secure authentication (JWT, bcrypt) and Excel export with advanced filtering for transaction records.

### The Day

- Created a full-featured web app (Next.js, TypeScript, Material UI) to centralize academic content for CS students with more than 3000 visits monthly.
- Implemented advanced search and integrated Google Drive API for real-time file access and quick resource discovery.

- Added PWA support, mobile optimization, and collaborated with a student team for Vercel deployment.

## Skills

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**Languages:** C++, Python, JavaScript, C, Java, HTML, CSS, SQL, Rust

**Technologies:** Back-end (Flask, Django), Node JS (Express.js), MongoDB, Github, Unreal Engine, Linux, Object Oriented Programming, TensorFlow, OpenGL

**Soft Skills:** Communication, Collaboration, Adaptability, Leadership, Time management, Flexibility, Decision-Making

## Volunteering

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**Head of IEEE Aswan SB Web Branch**

Sep 2024 – Jul 2025

- Maintained and enhanced the official IEEE Aswan SB website, ensuring high uptime and performance.
- Led a team of web developers, mentoring juniors and integrating APIs to extend functionality and support IEEE events.

**Head of GDSC AAST Student Club Programming Team**

Oct 2023 – Jun 2024

- Conducted workshops and training sessions on emerging technologies, tools, and programming best practices.
- Mentored team members in backend development, APIs, version control, and debugging.

**Programming Instructor at ICPC AAST Aswan Community**

Oct 2022 – Jul 2025

- Developing Problem-Solving Techniques using C++ Programming language.
- Preparing Students for ECPC Programming Contest.

## Hackathons

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- **ACPC 2023 (Africa & Arab Collegiate Programming Championship):** Qualified via ECPC, demonstrating strong problem-solving and algorithmic skills (unable to attend due to an Erasmus+ grant).
- **ECPC 2023 (Egyptian Collegiate Programming Contest):** Led team "Codna\_Manga" to 1st place among 17 university teams and top 24 out of 300+ teams overall.
- **ECPC 2022:** As part of "StuckOverBugs," placed Top 3 among 18 university teams and Top 40 out of 300+ teams overall.
- **IEEEEXTREEME 16.0 (Oct 2022):** As part of "Code3n5Amoon," ranked Top 58 among 100+ Egyptian teams and Top 1000 among 6000+ global teams.

## Languages

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**Arabic:** Mother tongue

**English:** B2