

# Yahia Mohamed Nabil

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## Education

**Cairo University** – Bachelor of Computer Science, Cairo, Egypt

Sep 2021 – Jun 2025

- **Relevant Coursework:** Data Structures, Algorithms, Object-Oriented Programming, Database Systems, Software Engineering, Web Technology, Machine Learning, Natural Language Processing, Generative Adversarial Networks.

## Experience

**Geidea** (Hybrid, Cairo, Egypt) – *Frontend Engineering Intern*

Sep 2025 – Present

- Improved Angular build performance by 41% through lazy loading, removing unused modules, and reducing bundle size.
- Built delta features and UI components to align a modern Angular SPA with a legacy system, reducing inconsistencies during consolidation.
- Supported the micro-frontend to SPA transition by preventing over-engineering and optimizing runtime performance.
- Refactored poorly structured modules, improving maintainability and feature stability.

**Mimar Architecture and Engineering** (On Site, Cairo, Egypt) - *Software Engineer*

Mar 2025 – Jul 2025

- Developed MIMO, a WPF desktop tool for KPI tracking and automated architectural model naming in Autodesk Revit using RAG, integrating with Revit API to detect, count, and locate design issues (clashes, non-compliant selections) through element IDs.
- Optimized AI-driven naming system using RAG and VLLM, reducing response time from 15 seconds to 1 second and improving standards compliance across architectural workflows.

**DEPI** - *Data Engineering Trainee*

Apr 2024 – Sep 2024

- Gained hands-on experience with Database and Data Warehousing concepts, implemented ETL pipelines, performed data analysis and cleansing, and worked with Hugging Face and pretrained machine learning models.

## Projects

**Nexus: Agentic Code Helper** 🤖

Summer 2025

- Developed a CLI application with multiple specialized agents for code review, bug fixing, code generation, documentation, and error explanation using Gemini API and LangChain for agent coordination.
- Implemented orchestration agent to route user prompts to appropriate specialized agents based on task requirements, with event loop architecture for continuous interaction.

**Thotron AI-NVC: AI Narrated Video Compilation** 🎥

Winter 2025

- Designed and developed a frontend application from the ground up using React and Vite, with Redux for state management and Tailwind CSS for responsive styling and layout.
- Orchestrated a CI/CD pipeline using GitHub Actions and Netlify by creating a GitHub Actions script to build the project and check for errors or missing dependencies.
- Developed a FastAPI service with VLLM to serve AI models, reducing average inference time for 1,000 tokens from 45s to 5s.

**MIMO - Mimar Architecture and Engineering**

Winter 2025

- Built a WPF desktop tool with custom UI for KPI tracking and automated architectural model naming in Autodesk Revit, integrating Revit API to detect, count, and locate design issues using element IDs.
- Implemented FastAPI service with RAG and VLLM for model naming conventions, reducing average response time from 15 seconds to 1 second and standardizing workflows for internal architectural teams.

## Extracurriculars

- Participated in a student activity **SCCI** as an IT member.
- Built **SCCI's website** using HTML, CSS, JavaScript, and PHP, including an online store with order and inventory management.

## Skills

**Languages:** Python, HTML, CSS, JavaScript, TypeScript.

**Frameworks & Tools:** Angular, RxJS, Git, GitHub, GitHub Actions, Postman, Flutter, React, Redux, Tailwind CSS.

**Concepts:** Data Structures and Algorithms, Big O Notation, Problem Solving, Object-Oriented Programming, Design Patterns, SOLID Principles, RESTful APIs, Databases.