

# Ahmd Fahs

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## Projects

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### Minishell

[github.com/repo](#)

- Engineered a fully interactive Unix shell from scratch in C, handling user input and command execution.
- Designed a robust parser and tokenizer capable of correctly interpreting complex shell syntax.
- Implemented low-level process and signal management by manually creating and synchronizing child processes, and handling terminal signals to replicate real shell behavior.

### H2Perfumes E-Commerce Website

[Link](#)

- Developed an online store using WordPress + WooCommerce with custom theme integration.
- Implemented product catalog, shopping cart, and secure checkout.
- Optimized for performance, mobile responsiveness, and user-friendly UI.

### OverseasLinks Website

[Link](#)

- Built a responsive business website using Tailwind CSS for styling and modern UI design.
- Designed and deployed a responsive business website showcasing services and resources.
- Integrated clean navigation and structured content for usability.

### University Course Scheduler System

- Developed in the first year of university as a desktop application to generate complete course schedules.
- Processed Excel input files containing professors' available time slots and assigned courses.
- Implemented constraint-based logic to handle room assignments, teaching days, and professor availability.
- Designed a Java Swing GUI for visualization, schedule editing, and conflict resolution.
- Used Maven for modular project management and dependency handling.

### 42 Projects

- Completed multiple projects at 42 Beirut, covering areas such as concurrency (Philosophers), graphics (So Long), algorithms and data structures (Push Swap), memory management, and low-level C programming.
- Gained extensive experience in debugging, team-based code reviews, and working under project constraints.

## Experience

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### Freelance Developer, NazerApps

Jan 2024 – Aug 2025

- Collaborated with and supported development teams to build and maintain mobile and web applications across multiple platforms.
- Led small teams on selected projects, guiding applications from initial concept and planning through development, delivery, and client handover.
- Worked directly with clients to gather requirements, clarify feedback, and resolve technical or functional issues throughout the project lifecycle.
- Contributed to mobile development, web development, and WordPress-based solutions, adapting tools and technologies based on project needs.
- Managed timelines and deliverables, ensuring projects were completed efficiently and aligned with client expectations.

## Publications

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### AI Instead of Wasta: A Lebanese Dream of a Fair Government

June 2025

*Ahmd Fahs*, Medium

- Awarded 1st Place in the 42 Beirut Technical Writing Competition
- [Link to the article](#)

## Education

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### 42 Beirut Core Program , Level 6

May 2025 – Present

- Immersed in a rigorous, peer-driven curriculum focused on C programming, algorithms, memory management, low-level system design, and object-oriented programming through C++ modules.
- Successfully completed the highly selective 42 Piscine, an intensive month-long boot-camp, demonstrating resilience, adaptability, and critical thinking.
- Collaborated on team-based projects in a teacher-free environment, strengthening problem-solving, code review, and debugging skills.
- Progressed through structured levels covering algorithms, system and network programming, Git mastery, collaborative development, and introductory cybersecurity concepts.
- Participated in technical hackathons and security-focused challenges, applying problem-solving and defensive thinking in time-constrained, real-world scenarios.

### Phoenicia University, BS in Computer Science

Sept 2022 – June 2024

- Participated in multiple student clubs, including Robotics Club, and IEEE Student Branch.
- Successfully completed advanced coursework up to the senior year of the program.

## Skills

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**Languages:** C++, C, Java, HTML/CSS, Dart, PHP

**Frameworks and Platforms:** Flutter, WordPress, Laravel

**Concepts and Advanced Skills:** OOP, Data Structures, Algorithms, Design Patterns, SOLID Principles

## Certificates

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### AWS Certified Cloud Practitioner, Amazon Web Services

Sept 2025

- The AWS Certified Cloud Practitioner validates foundational, high-level understanding of AWS Cloud, services, and terminology.
- Link to Certificate

### EECE230X - Introduction to Computation and Programming, American University of Beirut (AUB)

Jan 2025

- Successfully completed a certified course covering Python fundamentals, object-oriented programming, data structures, and algorithmic thinking.

### Elements of AI for Business, MinnaLearn

Aug 2025

- Focus: Understanding AI applications, business strategy alignment, and responsible AI adoption.
- Link to Certificate