

SAM ABOU ZEID

Beirut, Lebanon

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EDUCATION

American University of Beirut

Bachelor of Science in Computer Science

- Member of Google Developer Groups and the Association for Computing Machinery (ACM).

2025 - Present

Beirut, Lebanon

PROJECTS

Clank AI: Trading Analysis Platform | Python, Flask, JavaScript, Financial APIs

- Built an AI-driven trading platform that transforms user queries into structured market insights by aggregating real-time price data, historical time-series, technical indicators, and contextual signals.
- Integrated financial and news APIs to dynamically incorporate market sentiment, company events, and macro signals, improving contextual awareness of generated strategies.
- Leveraged GPT-4o-mini for reasoning and synthesis, optimizing latency and token efficiency to support fast, iterative user interactions while maintaining stable and consistent analytical outputs.
- Designed a multi-agent architecture coordinating data ingestion, feature extraction, news interpretation, and strategy synthesis, enabling modular reasoning and traceable decision flows.
- Engineered technical analysis modules including RSI, moving averages, and support/resistance detection derived directly from price series and used to identify actionable trading zones.

Sambousik: AI Food Assistant | Flask, PostgreSQL, JavaScript, OpenRouter

- Built a full-stack AI food assistant delivering personalized meal recommendations through a Flask backend, PostgreSQL persistence layer, and interactive chat-based frontend.
- Designed a structured processing pipeline managing user profiling, session context construction, and controlled LLM response generation across multi-turn conversations.
- Implemented dynamic preference extraction to capture user goals, dietary styles, allergies, and nutritional targets directly from natural language input.
- Developed a rolling memory system combining recent messages, persisted user profiles, and summarized history to preserve long-term conversational continuity.
- Integrated GPT-4o-mini for inference and summarization, reducing response latency and cost while maintaining stable, context-aware, and coherent conversational outputs.

EXPERIENCE

Beyond Learning

Logistics Operations Coordinator

- Coordinate daily logistics for educational camp operations, including scheduling, material distribution, and on-site execution.
- Support planning and real-time issue resolution in fast-paced environments, ensuring continuity under changing requirements.
- Track resources and workflow dependencies to reduce disruptions and improve operational efficiency across activities.

August 2024 - Present

Beirut, Lebanon

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML, CSS

Frameworks & Tools: Flask, Next.js, Git, GitHub, PostgreSQL, OpenRouter, OpenAI SDK, Cloudflare

Concepts: Full-Stack Development, API Integration, Multi-Agent Systems, Conversation Memory, Prompt Routing, Session Management, Frontend-Backend Communication

LEADERSHIP AND AWARDS

- AUB-MUN participant
- Honorable Mention at the “Glow” event after a TED Talk
- Best Debater Award
- Served as Class President and Representative
- Fluent in Arabic and English