

Elie Salem

Cambridge, MA | (202) 215-8237 | eliesalem13@gmail.com | linkedin.com/in/elie-salem | eliesalem.github.io

EDUCATION

Harvard University

Cambridge, MA

A.B. in Computer Science & Philosophy

2020 - 2025

- Relevant Coursework: **Data Science, Algorithms, Systems Programming, AI, NLP, Statistics.** **GPA: 3.7**

EXPERIENCE

Research Assistant, AI4CommSci Lab

Feb 2025 – Present

MGH Institute of Health Professions

- **Co-authored paper** with Professor on lexical noun class consistency across languages; directly responsible for Arabic citation.
- Prepared **research-grade corpora** (digitization, **OCR**, normalization) that feed the lab's **computational modeling** efforts.
- Built a **reproducible** corpus-prep workflow: documented schemas, versioned sources, and ran quality checks (deduplication, alignment, error audits) to ensure clean inputs for analysis.

Computer Science & Philosophy Intelligence Analyst

Feb 2025 – Present

Mercor

- Supervised and reviewed input for **50+** contributors on **RLHF** and **RLVF** data labeling, completing **10,000+** labeling tasks.
- **Spearheaded** effort to revamp labeling criteria guidelines for qualitative tasks, reduced wrong answer flags by **15%**.

Co-founder & Product Lead

Mar 2025 – Present

Mowment

- **Co-founded** an **AI journaling app** that analyzes mood and delivers daily prompts; shipped a **pre-release pilot** and led **research→spec→pre-release** builds and cohort reviews; owned near-term and long-term **roadmap**.
- **Spearheaded** the **pitch narrative** (problem, users, why now) and ran outbound to partners; **iterated the deck** each round.
- **Developed** a pre-release build with **opt-in consent**, **minimal data** collection, basic **error logging**, and toggles for safe testing.
- **Built** an experimentation loop – **tracking plan**, **feature flags**, and **cohort dashboards** – and ran a weekly readout that drove **two iterations**, cutting median check-in time to **95s** and raising weekly completion by **16%**.

Product Development Intern

Jan 2024 – Jan 2025

Future of Media Project, Harvard Business School

- **Owned E2E delivery** of an **interactive mini-case format**: ran discovery with students/faculty, authored the **PRD + tracking plan**, iterated through **3** prototype cycles, and launched in **HBS courseware**, increasing engagement by **13%**.
- Co-authored influential **Edtech strategy documents** with **NYU Stern Dean** and former **Boston Globe CEO**.
- **Created marketing deliverables** (briefs, presentations) to communicate product opportunities to external partners.

Data Engineer

Jun 2024 – Aug 2024

Keel

- **Built an end-to-end data pipeline** (scrapers + model + **D3** dashboard) to visualize **startup success metrics** across sectors.
- **Optimized** front-end analysis performance by **precomputing aggregates**, **code-splitting** charts, and adding **lazy loading**.
- **Disseminated findings to C-suite**; directly responsible for company shift away from sector-based portfolio allotment.

LEADERSHIP

Editor-in-Chief

Dec 2022 – Dec 2024

The Harvard Lampoon

- **Helmed** a **50-member**, highly selective media org; stewarded a **\$5M** endowment and **\$1M+** annual revenue, owning **P&L**, governance, and cross-functional ops (editorial, production, partnerships).
- Built a **digital-first revenue strategy** across acquisition, paywall, billing, and retention; launched **two site revamps** with **Core Web Vitals** improvements and lifecycle campaigns, driving subscriptions **+35% QoQ** and reshaping brand image.
- Developed a **market-validated book proposal** (comps, ICP, positioning); progressed to **final-round** at a **Big Five** publisher.

PROJECTS

Flight Query App

- Developed a **grammar-based parser** to convert natural language queries into SQL, enhancing user interaction with databases.
- Implemented **neural encoder-decoder models** achieving **45%** query prediction accuracy, validated on **10,000+** queries.
- Optimized parsing efficiency, reducing query response time by **35%** and increasing throughput for a dataset of **500,000+** records.

Custom Unix Shell Implementation

- Built **Unix shell** to parse and execute Bash-like commands, supporting **pipelines**, **conditionals**, and **background execution**.
- Implemented core **system calls** (**fork()**, **execvp()**, **pipe()**, **waitpid()**) for efficient process management.
- Designed a robust **redirection system** (**<**, **>**, **2>**) with fail-safe error handling for reliable command execution.

TECHNICAL SKILLS

Technical: Python, C++, SQL, Java, JavaScript, OCaml, NewLisp, TypeScript

Web & Data: React, D3.js, Node.js, Flask, AWS, MongoDB, Docker, Linux

Analytics: Market Research, Data Visualization, Machine Learning, NLP, Pipeline Development

Other: Fluent Arabic, tri-state debate champion, pre-professional classical pianist