Elie Salem

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

EDUCATION

Harvard University   Cambridge, MA
AB in Computer Science and Philosophy (double degree)   December 2024
Courses in Data Science, Algorithms, Systems Programming, AI, Natural Language Processing, Statistics, C++
Worked on a thesis in the philosophy of mind with the department head. Finished CS degree in two years.

WORK EXPERIENCE

Keel Ventures   New York, NY
Software Engineer   May - August 2024
- Developed AI-driven candidate ranking using NLP and ML, automating scoring and email outreach.
- Built a startup analysis pipeline with D3.js and React, uncovering insights that informed incubator strategy
- Created a scalable web scraper that processed hundreds of startup profiles, cutting research time by 80%.

HBS Future of Media Project   Cambridge, MA
Technology & Product Development Intern   January 2024 - Present
- Chosen as sole undergraduate among FAANG-experienced HBS graduate interns, reporting directly to former Boston Globe Media CEO.
- Co-authored publication on digital education transformation strategies and emerging EdTech trends.
- Developed multimedia business cases analyzing digital disruption in legacy media organizations.
- Led ideation and prototyping of educational technology products targeting the higher education market.

The Harvard Lampoon   Cambridge, MA
Editor-in-Chief   December 2022 - December 2023
- Harvard's most exclusive organization (<5% acceptance) famous for *SNL, The Simpsons, The Office*, etc.
- Directed 50-member team in managing publications, content strategy, timelines, and communications.
- Led book proposal that reached Back Bay Books' final round, collaborating with industry executives.

PROJECTS

Flight Query App
- Built grammar-based parser to convert natural language queries into SQL statements on a flight database.
- Created from scratch two neural encoder-decoder models, the latter with cross and self-attention. After training, models were able to predict SQL statements of natural language queries with 45% accuracy.
- Engineered a tokenizer to parse nearly any flight-related query, enabling flexible natural language input.

Endangered Trading Website
- Used d3 to create nine highly interactive data visualizations on international endangered species trading.
- Developed sophisticated front-end features like parallax scrolling, novel transitions, card matching games.
- Ranked among top final projects in 100+ person data science course.

SKILLS & INTERESTS

Programming Languages: Python, C++, OCaml, SQL, Java, Javascript, C, NewLisp, Typescript.
Web Development: React, Git, Linux, D3.js, Node.js, AWS, MongoDB, Docker, Flask.
Other Talents: tri-state debate champion, pre-professional classical pianist, jiu jitsu black belt.
Interests: humor writing, continental philosophy, filmmaking, tennis.