

# JACOB KLINE

Boston, MA, Available: July-December 2023

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## Education

**NORTHEASTERN UNIVERSITY**, Boston, MA

*Sept. 2021 - Apr. 2025*

**Khoury College of Computer Sciences**

*Candidate for Bachelor of Science in Computer Science, GPA: 3.624/4.0*

**Awards:** Deans List

**Relevant Courses:** *Algorithms* | *Object Oriented Design* | *Networks & Distributed*

*Systems* | *Computer Systems* | *Logic and Computations* | *Discrete Structures* |

*Fundamentals of Computer Science 1 & 2 (Accelerated)*

**THE HEBREW UNIVERSITY OF JERUSALEM**, Jerusalem, Israel

*Sept. 2020 - Dec. 2020*

*Rothberg International School*

*Nativ Gap Year Program*

## Skills

**Tools:** Git, Vim, IntelliJ, DrRacket, VSCode, PyCharm, CLion

**Systems:** Mac, Linux, Windows

**Programming Languages:** *Proficient:* Java, Racket, Python    *Familiar:* Lisp, JS (React)/HTML/CSS, C, Swift

**Spoken Languages:** Hebrew (professional fluency), Arabic (conversational fluency), Mandarin (basic conversational)

## Projects

**Real Time ASL Interpreter**, *Python, OpenCL Framework*

*Spring 2022 - present*

- Developing a real time visual interpreter to scan hand positions, outputs associated English text
- Created an effective program in a span of 24 hours, during hackathon, won 2nd place, adding more features
- Delegating portions of the process to different members of team based on expertise

**Advent of Code**, *A variety of languages*

*Dec. 2021, Dec. 2022*

- Tinkered with Java, Racket, Python, and more to creatively solve coding challenges in the month of December
- Implemented dynamic programming strategies to build faster/more efficient programs

**Image Processor**, *Java, Swing library*

*Summer 2022*

- Constructed a graphical and text based photoshop-like image editor
- Enforced Java fundamentals and OOD principles to design safe, readable, and extendable code
- Exceeded expectations by adding a "seam carving" resizer to resize images in a more visually pleasing way

## Work Experience

**English for Speakers of Other Languages Teacher**

*Oct. 2021 - present*

**Boston Public Library** - Copley Square

- Teach weekly comprehensive English language sessions for 10-15 adult students
- Construct detailed lesson plans about conversational English topics such as idioms and common phrases
- Invite outside speakers to share about personal studies, allow students to ask questions in a conversational manner

**Children's Program Creator/Coordinator**

*Dec. 2021 - July 2022*

**Kadimah Toras Moshe** - Brighton, MA

- Initiated focus groups with parents to learn community values, constructed appropriate child-based programming
- Created and provided weekly, hour-long, learning, storytelling, and singing programs for 0-4-year-olds and parents
- Strengthened communication of program development requiring collaboration and oversight of many committees

**Emergency Medical Responder**

*Jan. 2021 - May 2021*

**Magen David Adom** - Tiberius, Israel

- Executed tools from training, provided life-saving care to all patient backgrounds on Advanced/Basic Life Support ambulances
- Utilized multiple languages in high-stress settings, effectively communicated with patients and colleagues
- Sought out additional life-saving COVID-19 measures at height of pandemic to positively impact new community

**International Executive Membership Vice President**

*Dec. 2019 - Dec. 2020*

**United Synagogue Youth** - New York, NY

- Enacted programming to connect hundreds of teens across country during the height of pandemic
- Organized membership initiatives in 16 international regions in collaboration with respective Regional Membership Coordinators
- Collaborated with the five other executive board members to shift from in-person programming to effective online alternates

**Personal Interests:** Chess, Medicine, Improv Comedy, Stand-up Comedy, Reproductive Justice, Language Learning