

BEN EYAL

PHONE: +972 54 7599919
EMAIL: ben@beneyal.com
SOCIALS: beneyal.com — [@BenEyal_](https://x.com/BenEyal_) — [GitHub](https://github.com/BenEyal) — [in LinkedIn](https://www.linkedin.com/in/beneyal/)

WORK EXPERIENCE

MAY 2022–PRESENT
(2 years)

Software Engineer at AI2, Israel

[scala](#) [zio](#) [lucene](#) [streaming](#)

Led the migration from Scala 2 and Akka to Scala 3 and ZIO, developed an advanced regex-like engine for linguistic searches, implemented SQL-like stream operations, and optimized memory and runtime performance, working closely with the tech lead.

MARCH 2019–JULY 2021
(2 years, 4 months)

Lecturer at Ben-Gurion University, Israel

[teaching](#) [typescript](#) [functional-programming](#)

Taught “Principles of Programming Languages” to undergraduate computer science and software engineering students. Received an “Excellence in Teaching” award from the computer science department.

EDUCATION

FEBRUARY 2018–JANUARY 2024
(6 years)

PhD at Ben-Gurion University, Israel

[python](#) [machine-learning](#) [deep-learning](#) [huggingface](#) [text-to-sql](#)

Invented Query Plan Language (QPL), an intermediate language between SQL execution plans and SQL that is easier to understand for both humans and language models. Achieved SOTA execution accuracy on the hard and extra-hard queries in the Spider development set. Code available on [GitHub](https://github.com).

OCTOBER 2015–FEBRUARY 2018
(2 years, 5 months)

MSc at Ben-Gurion University, Israel

[python](#) [machine-learning](#) [deep-learning](#) [semantic-role-labeling](#)

Created a Hebrew semantic role labeling corpus by aligning English and Hebrew OpenSubtitles files using an English FrameNet model.

OCTOBER 2012–AUGUST 2016
(4 years)

BSc in Software Engineering at Ben-Gurion University, Israel

[software-engineering](#)

Graduated with honors.

PROGRAMMING PROFICIENCY

LANGUAGES: Python, Scala

LIBRARIES: HuggingFace ecosystem, PyTorch, scikit-learn, pandas, NumPy, matplotlib, seaborn, ZIO

SKILLS AND ACCOMPLISHMENTS

LANGUAGES: Hebrew, English

PUBLICATIONS: • Semantic Decomposition of Question and SQL for Text-to-SQL Parsing (EMNLP Findings 2023, [PDF](#))

• Building a Hebrew Semantic Role Labeling Lexical Resource from Parallel Movie Subtitles (LREC 2020, [PDF](#))

SPEAKING: Presented my PhD research to 250 SAP employees in an internal “Innovation Information Session Series” seminar.