Ben Eyal

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Work Experience

MAY 2022–PRESENT | **Software Engineer** at **Allen Institute for AI (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 | **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 | **PhD** at **Ben-Gurion University**, Israel

python   machine-learning   deep-learning   huggingface   text-to-sql

Created 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. Completed under the supervision of Prof. Michael Elhadad.

OCTOBER 2015–FEBRUARY 2018 | **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 | **BSc in Software Engineering** at **Ben-Gurion University**, Israel

software-engineering

Graduated with honors.

Programming Proficiency

LANGUAGES: Python, Scala, SQL
LIBRARIES: HuggingFace ecosystem, PyTorch, scikit-learn, pandas, NumPy, Matplotlib, seaborn, SciPy, 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.