

## Neva Krien

Low-level systems programmer with research experience in LLMs.

## Experience

- Mentee of Guy Tamir (Intel) since 2022; contributed to research and educational outreach in AI.
- Participated in a research team focused on large language models (LLMs) for C++ code generation.  
(Reference: [our first paper](#) 18-aug-2023)
- Built demo applications for Intel products, including presenting at an in-person Intel AI-PC workshop 2025.
- Authored example code used in Intel's official [YouTube AI tutorials](#).
- Core team member of [PAL](#): A new programming language currently under closed development.
- Built two toy compilers/interpreters:
  - One in **pure C99 + NASM**, including a full optimization pipeline (constant folding, loop unrolling, branch elimination).
  - One in **Rust**, using **unsafe** for a simple dynamic language with a VM.
- Contributor to [cURL](#): Working on a [PR](#) for a 5-year-old issue, in collaboration with maintainers.

## Side Projects

- [source\\_viewer](#): A language-agnostic Rust CLI tool for analyzing disassembly. Supports any language without requiring a special build.
- [auto\\_new](#): A procedural macro for ergonomic constructor generation in Rust (100+ downloads in the first 2 days). Lightweight, fast, and dependency-free.
- [Blog on Medium](#): Writings on systems programming.
- [benchmark-errors](#): Educational repo with curated examples of common benchmarking pitfalls and statistical analysis.
- **Movie Subtitles Translation Tool**: Used by my mentor; converts and batch-translates subtitle files via [CLI pipeline](#) saved hours of manual translation work for 30 minutes of scripting.
- **Accidental Rebuild of pypi-timemachine**: Recreated functionality for [reproducible PyPI builds](#).

- [vpn\\_proxy](#): Simple tool for managing VPN exit IPs; made as a weekend learning project.
- [AI Assistant Website](#): Small website using OpenAI API for scheduling; includes custom prompt logic and basic UI.
- ... and more.

## Technical Skills

**AI & ML:** PyTorch, TensorFlow, Huggingface, Diffusers, OpenVINO, Intel IPEX

**LLMs & Tooling:** LangChain, OpenAI API, FAISS

**Systems:** x86\_64 ASM (NASM, GAS), LLVM IR, Rust (unsafe, proc\_macros), C, C++, CUDA (basic)

**Data & Scientific:** Numpy, Pandas, Scikit-learn, Matplotlib

**Backend:** Rust, C++, Go, Elixir, Java, C#, SQL, PostgreSQL

**Frontend / GUI:** HTML, CSS, JavaScript (basic), Raylib

## Education

**B.Sc. in Computer Science**

- The Open University of Israel
- Currently in second year