

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