

# Dima Shkurski

## Summary

email: [dima@shkur.ski](mailto:dima@shkur.ski)

Software engineer with 16+ years of professional experience and consistent understanding of concepts: from low-level development / optimization to general software design principles. Strive for simple solutions delivered on time. Spent most of the career working remotely.

## Skills

- C++, Rust
- x86 assembly, C
- Python, JS
- Windows, MacOS, Linux
- applied compiler theory
- LLM-based architectures
- reverse engineering and low-level debugging
- application security

## Experience

### [2023 .. 2024]

Software Engineer  
@NotAI  
Berlin, DE

- built the product from the ground up; went through several iterations over a few months: from quick prototypes on Python/ElectronJS to a production-ready architecture;
- working on semantic search on the edge (private data, local devices), using LLM/sentence transformers;

### [2019 .. 2023]

Software Engineer  
@ Logitech  
Newark, CA, US

- we designed a software system reliably serving customers from Fortune 100;
- owned the client-side backend for Logitech Tune (Windows/macOS desktop application); participate in decision making on API and system architecture, while being a point of contact for technical questions and communicating with the outside vendors / internal teams;
- worked on the design and implemented the key backend part to integrate computer vision algorithms with Logitech conferencing solutions (firmware/software).

### [2021]

Software Engineer  
@ Shuttle.rs  
(YCS20)  
London, UK

- joined the company as a first employee; we were hacking fast and implementing ideas overnight;
- as a Rust engineer, owned multiple subprojects within data generation engine;
- worked directly with the founding team and taken part in decision making on engineering, market research and strategy.

### [2017 .. 2019]

Software Engineer  
@ COMODO  
Odesa, UA

- written software deployed on 20M+ computers worldwide;
- development of antiviral scan engine (malware unpacker, virtual machine, dynamic code translator);
- reverse engineering, design and implementation of a low-level system monitoring library;
- worked closely with the security team on detecting attempts to exploit security vulnerabilities;
- worked on a runtime unpacker of Windows executable modules.

### [2014 .. 2016]

Independent Contractor,  
Freelancer

- dozens of projects at VWorker, Elance, Freelancer.com; mostly in system programming and security fields;
- algorithmic programming; participated in ACM/ICPC contests.

### [2012 .. 2014]

Software Engineer  
@ HeuLab  
Singapore

- development of a network traffic analysis / filtration system, including implementation of a WinSock/LSP proxifier; desined and implemented the entire client-side part of Parental Control System for Windows.

## **Technologies**

C++, C, Rust, Assembly, Python, JS, SQL;

Bash, PowerShell;

UML, Protobuf, FlatBuffers;

Qt, QML, Boost, ElectronJS, WinRT, WinUI, GTest (Google Test), Catch 2;

LLM, semantic search, embedding models, BM25, BERT; prompt engineering;

IDA Pro, x64Dbg, WinAPI, Wireshark, Windows UI Automation / Accessibility (UIA, MSAA);

USB, UVC, UART, SPI, BLE, Bluetooth, MQTT, IoT, embedded;

HTTP, WebSockets, REST, ICMP, SMTP, IMAP, TCP/IP, NAT, proxies;

Windows, macOS, Linux, ChromeOS.

## **Other**

Open US visa: B1/B2;

Fluent: English;

Native: Ukrainian.