

Boris Barbulovski

C/C++ Software Architect & Cybersecurity Researcher

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CORE SKILLS

Languages

C (C99/C11) C++ (17/20)

ARM64 Assembly Python

Bash PHP

Cybersecurity & OS

Reverse Eng. Android Subsystems

Threat Mitigation Kernel Drivers

DKMS Modules

Embedded & Systems

Bare-Metal ARM STM32

USB/HID Drivers Bluetooth

Hardware Design

Tools & Frameworks

Qt6 / Qt5 libgit2 CMake

AST Parsers NGINX Oracle DB

GDB / Valgrind REST / JSON

EDUCATION

Certified Qt Specialist

Nokia & Digia (Sep 2012)

Informatics & Telecom

New Bulgarian University

Civil Engineering HS

GUC "Zdravko Cvetkovski"

LANGUAGES

Macedonian: Native

English: Fluent

Bulgarian: Very Good

Serbian: Very Good

EXECUTIVE SUMMARY

High-performance C/C++ Software Architect and Cybersecurity Researcher with 15+ years of experience in low-level systems engineering, Android security subsystems, bare-metal ARM firmware, Linux kernel modules, and cross-platform desktop applications (Qt/C++). Active open-source contributor across Linux drivers, developer tooling, and compiler AST parsers.

PROFESSIONAL EXPERIENCE

Senior Cybersecurity Researcher

2020 – 2025 & 2017 – 2019

Confidential

- **Global Threat Mitigation:** R&D of cybersecurity platform solutions combatting cybercriminal activities worldwide.
- **Android Security Platform:** Architected low-level Android security subsystems enhancing app security posture.
- **Tech:** C, ARM64 Assembly, Android Subsystems, Reverse Engineering.

Senior C++ Developer

May 2019 – Nov 2019

Inscale

- **High-Performance Backends:** Engineered Linux server backends for high throughput ([cpp_ws.backend](#)).
- **Infrastructure:** Integrated NGINX web servers with Oracle DB & REST/JSON protocol handlers.
- **Tech:** C++, Linux, NGINX, Oracle DB, REST, JSON.

Project Lead

Nov 2010 – Nov 2017

INform

- **Medical Hardware & Firmware:** Designed vital monitors (ECG, CO2, SPO2, BP) on custom embedded hardware with Bluetooth.
- **Android Board Porting:** Ported Android to iMX6 hardware, customizing u-boot, kernel drivers, HAL, & VNC.
- **Bare-Metal & Desktop Software:** Developed STM32L ARM firmware & Qt/C++ Holter analysis viewer.
- **Tech:** C/C++, Qt, Linux Kernel/HAL, ARM, iOS, Android, Hardware.

FEATURED OPEN SOURCE PROJECTS

- **TextParser** (github.com/bokic/TextParser): High-performance C AST grammar parser.
- **gitmaster** (github.com/bokic/gitmaster): Native Qt6/libgit2 Git GUI desktop client.
- **usbdpfp-dkms** (github.com/bokic/usbdpfp-dkms): Linux DKMS driver for Digital Persona readers.
- **ezp2019 Utility** (github.com/bokic/ezp2019): Linux CLI driver for SPI Flash Programmers.
- **logitech-k650-fix** (github.com/bokic/logitech-k650-fix): Linux daemon fix for Insert key.