Andrei Maiboroda

Software Engineer / Researcher / Ethereum Core Dev

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EXPERIENCE

Ethereum Foundation – *Software Engineer / Researcher*

12/2016 – 09/2025, Berlin, Germany

2021-2025 Ipsilon team

- Worked on EVM Object Format proposals - designing, speccing out, prototyping, testing.
- Maintained evmone and EVMC , implemented EIPs for upcoming network upgrades.
- Contributed to go-ethereum: EVM optimizations, Ipsilon EIP implementations, EOF prototypes.

2020-2021 Ewasm team

- Built fizzy, fast WebAssembly interpreter.
- Contributed to the official WebAssembly test suite.

2016-2019 cpp-ethereum / aleth Ethereum client

- Maintained consensus-critical code, EVM, precompiles, networking code, syncing, JSON-RPC etc.
- Refactored a lot of legacy code, significantly improved unit test coverage.
- Supported Parity Warp (snapshot) sync protocol.
- Implemented EIPs for upcoming network upgrades; aleth was critical for generation of Ethereum consensus tests till Muir Glacier fork (2020).

Spearbit – *Lead Security Researcher*

12/2022 – present, Remote (Freelance)

- Reviewed EVM implementation of Polygon zkEVM.

Magellan GPS – *Senior Software Engineer*

09/2012 – 10/2016, Moscow, Russia

TRX Off-Road Navigator

- Built REST API for cloud storage (PHP, MySQL, Linux); also prototyped in Ruby on Rails with JS front-end.
- Contributed to platform code (C++, cross-platform); implemented features in iOS app (Objective-C).

Lower-Level Platform Maintenance

- Refactored C++ back-end library for binary map skin format; eliminated legacy branching and improved maintainability.

Map Preparation Tools for Magellan Format

- Worked on business logic and UI for map-building software (C++, MFC, some C#); modularized core processes using COM.
- Led code reviews for map viewer tool (C++, Qt, COM).
- Developed QGIS plugin to export projects to Magellan format (Python).

<u>Acronis</u> *– Software Developer*

01/2008 – 07/2012, Moscow, Russia

Projects: Acronis Backup (Enterprise), True Image for macOS

- Developed server-side business logic for backup/archive management, policies,and process control in a distributed, cross-platform environment (Visual C++, gcc).
- Contributed to macOS backup solution: business logic and low-level file/directory backup handling.

Software Technologies *– Software Developer*

06/2004 – 12/2017, Taganrog, Russia

Maptech Inc. – Personal GPS Navigation Device

- Developed POI rendering subsystem and trip computer UI (Visual C++, COM, GDI+, multithreading).

ESRI Inc. – Fleet Management Solution

- Built COM API for custom extensions; implemented object serialization to MS Access (Visual C++, MFC, ArcObjects).

EDUCATION

Taganrog State University of Radio and Engineering *- Engineer degree in Software Engineering*

09/1999 – 06/2024, Taganrog, Russia

Diploma with distinction.

SKILLS

C++
GCC, Clang, CMake, Google Test, Google Benchmark

EVM
Ethereum Execution Layer
Ethereum Execution Specs Tests (EEST)

Go
limited experience

Linux

Rust
basic familiarity, willing to learn

Python