# Curriculum Vitae

# Marko Marković

**tech lead / software developer / agent whisperer**

Crafts code since 20th century and still thinks it's fun. Began the professional career with imperative style PHP, transitioned to Object Oriented style for a while but always felt something was not right. Then discovered functional style and got totally corrupted with Node.js. Lately mostly talks with agents, but when not, plays around with photography, tiny hardware, and/or searches for dark places to stargaze from. Favorite quote? *"I'd rather write programs that write programs than write programs."*.

## Quick facts

- Currently in **Abu Dhabi**, United Arab Emirates.
- Born in 1980 — Experienced an analog childhood and a digital adulthood. Possesses both Generation-X cynicism and Millennial optimism and drive.
- Understands, speaks and writes in **Serbian** (native), **English** (full professional proficiency), and **German** (professional working proficiency).
- Prefers async communication using primarily okram@civokram.com.
- Can be reached on **+971 50 252 4342** phone number.

## Experience overview

- More than 20 years of professional experience in software development.
- Experienced with agile practices and leading cross-functional teams.
- Strong TypeScript skills across full-stack, with a preference for back-end work.
- Experience with relational, NoSQL, document, graph, and vector databases.
- Used plain-old-http, REST, WebSockets, GraphQL, and gRPC to connect diverse APIs.
- Has no problem learning new languages, libraries, frameworks, paradigms, etc.
- Developed online, offline, real-time, specialized, generalized, and mixed applications.
- Wrote code to generate web sites, PDFs, images, graphs, and code.
- Feels at home in Linux, but can endure other platforms.
- Doesn't let AI agents get away with sloppy code.

## Experience in more detail

### Principal Engineer — Sentryk AI LTD




Abu Dhabi, United Arab Emirates

Sep 2026 ⇨ Present (2 months)

golang rust agents ai llm mcp node.js typescript lsp tdd

Part of a small, focused team building vx0, an AI-native application security platform. Every scan emits taint paths, dataflow graphs, and code-context embeddings, forming a baseline that AI agents can learn the codebase from. Responsible for everything supporting the scan engine, and contributing to the engine itself when needed. Also part of the internal security team, covering the full cycle from drafting security policies to implementing controls, monitoring, and vulnerability scanning.

### Software Architect — Space42 PLC




Abu Dhabi, United Arab Emirates

Jun 2025 ⇨ Sep 2026 (1 year, 4 months)

ai agents node.js typescript reactjs gis llm tdd

Combined the architect role with hands-on development. Built several proofs of concept for various projects. Rewrote Tarjamah, an LLM-powered translation platform, replacing its entire backend. Established technical governance and developed internal tools to support the developers. Served as the first point of contact for every finding raised by the security team, organizing its verification, remediation, and follow-up. Delivered the Capital Projects Delivery System for the Abu Dhabi Projects and Infrastructure Centre (ADPIC) from inception to completion.

### Principal Developer — Binance




Dubai, United Arab Emirates

May 2022 ⇨ Jan 2025 (2 years, 9 months)

node.js typescript reactjs vue git web3 blockchain

Designed and implemented microservices to enhance various blockchain wallet functionalities using Node.js. Contributed to the development of a zero-knowledge wallet and an NFT marketplace solution in React. Built robust admin interfaces to support local Binance branches in different countries, leveraging Vue.js, and ensuring seamless management and operations. Developed a mobile and Telegram-based game using the Phaser framework and React.

## Tech Lead / Engineering Manager — appsintegra

Abu Dhabi, United Arab Emirates

Nov 2018 ⇨ Jan 2021 (2 years, 3 months)

node.js typescript reactjs graphql git esb microservices unit testing scrum agile

Leading a multi-cultural team of several developers and QAs, utilizing agile techniques and modern development practices, tools, and infrastructure to, in cooperation with other teams, deliver services linking government entities and end-users (TAMM Project, see below).

## Tech Lead — InertiaSystems Ltd

Remote

Jun 2016 ⇨ Feb 2017 (9 months)

node.js autodesk-forge mongodb reactjs vue.js express git

Leading a small dedicated team to create the backend to manage, and convert Autodesk files to an intermediate format that the next layer of 2D and 3D viewers can load and show online. Extracting and organizing metadata of those files. Integrating viewer code with the infrastructure. Creating real-time chat and changes backend.

## VP of Engineering — Loyalis

Belgrade, Serbia

Jul 2015 ⇨ Mar 2016 (9 months)

node.js mongodb express angularjs git

Maintenance and improvements of the existing app, optimizing existing processes (including rewrites), implementing new functionality, and general server maintenance. Responsible for security and risk management across the application and infrastructure: identifying and assessing risks, defining and implementing mitigations, and keeping systems and customer data secure.

## External Developer — designessentials

Remote

May 2014 ⇨ Jun 2015 (1 year, 2 months)

php html css javascript mysql cms git

Development of several websites and custom CMSs for the agency.

## Primary Developer — pixelimage

Basel, Switzerland

Sep 2014 ⇨ Nov 2014 (3 months)

php cordova mysql phonegap-build git

Complete development of a CMS for mobile apps. The user could create an app online, fill it with content and compile it for publish in the stores without leaving the browser. After publishing, app could be updated almost in realtime, without the need for republishing in the store.

## Lead Developer — mediaONE Agency

Belgrade, Serbia

Mar 2012 ⇨ Jun 2013 (1 year, 4 months)

php cakephp mysql jquery video mobile zencoder git

Complete development of various projects (mostly websites with a custom CMS, but also a few mobile apps, CRM system, and bespoke business web applications).

## Senior Software Developer — HALO Creative Agency

Belgrade, Serbia

Jul 2009 ⇨ Mar 2012 (2 years, 9 months)

php cakephp amfphp jquery mysql postgresql api cms git

Complete development of custom CMS solutions for a diverse list of clients.

## Programmer — Maccom Media

Belgrade, Serbia

Apr 2006 ⇨ Apr 2007 (1 year, 1 month)

php javascript jquery cakephp sql cms

Complete development of custom CMS solutions for a diverse list of clients.

## Programmer — Cactimedia

Remote

Sep 2005 ⇨ Feb 2006 (6 months)

php javascript sql cms pdf

Complete development of custom CMS solutions for a diverse list of clients.

## Education

### Computer Science
Računarski fakultet, Belgrade, Serbia
2003 ⇨ 2007
Started working and never completed several remaining exams.

### General Linguistics and Information Science
Heinrich Heine Universität, Düsseldorf, Germany
2001 ⇨ 2003
Halfway through, decided to switch to Computer Science in Belgrade.

### Studienkolleg
Westfälische Wilhelms-Universität, Münster, Germany
2000 ⇨ 2001
Successfully finished.

## Certificates

### Google Cybersecurity Professional Certificate
Google, Coursera
Oct 2026

### Mastering ISO 27001 Controls: Implementation and Auditing
Packt, Coursera
Oct 2026

### Information Security Risk Management for ISO 27001/ISO 27002
Packt, Coursera
Oct 2026

## Notable projects

### TAMM — Abu Dhabi Government Services

2018 ⇨ 2021

node.js typescript reactjs graphql git esb microservices unit testing scrum agile

A unified system helping Abu Dhabi citizens and residents find and use Abu Dhabi government services and information. Enabling the government digital transformation by implementing various services linking the government entities with end-users, eliminating bureaucracy, and simplifying and streamlining processes and procedures.

### WAVE Industry Media

2012 ⇨ 2013

cakephp jquery mobile mysql zencoder mediaelement.js

A startup focusing on video publishing for industry. I've created the complete platform for managing videos, including upload, transcoding, and hosting, video player customization, embedding, search, etc. I was the CTO and only developer.

### Love Letters to the Future

2009

cakephp mysql flash webby winner

A global transmedia campaign aimed to raise awareness about dangers of climate change, a narrative game-like experience across the web, mobile and urban spaces. I've created the entire back-end CMS supporting all kinds of user-generated content (text, images, sound, and video) and the whole campaign management capabilities.

# Open Source

## This CV

vite html css github actions github pages puppeteer

Latest iteration of this CV, rendered from plain data to a static HTML page with Vite, published to GitHub Pages, and generating a PDF version using Puppeteer.

## Serbian QWERTZ and QWERTY keyboard layouts for macOS

The Serbian keyboard layout that ships with macOS differs from the standard one, which makes macOS frustrating for people like me who are used to the standard layout. Since Bosnian, Croatian, and Slovene use the same layout (according to Wikipedia), their speakers can benefit from this too.

## nena ilo lili

toy claude platformio.org

A one-button USB HID device on a Seeeduino XIAO SAMD21. It enumerates as a HID composite named nena ilo lili and turns a single momentary button into a keystroke, a key selector, and a mouse jiggler.

## insta display

toy claude platformio.org

A shuffled photo slideshow for the VIEWE UEDX48480040E-WB-A — a 4-inch 480×480 ESP32-S3 touch display. Reads images from a microSD card and rotates through them with a 1-second crossfade, while the on-board RGB LED glows in the average colour of the photo on screen.

## CYD Crypto Ticker

toy claude platformio.org lvgl

A real-time cryptocurrency price display application for ESP32-based "Cheap Yellow Display" (CYD) boards from Sunton. Features a modern touchscreen interface built with LVGL to monitor your favorite cryptocurrencies with live price updates, trend indicators, and customizable display options.

## 8x8x8x8

toy claude vite firebase platformio.org

Pixel art animation editor for creating 8×8 pixel animations with 8 frames and an 8-color palette. Also a hardware LED-based display for those. A toy project.

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