



Victor Balan

Senior Full-Stack Engineer

Romania · victorbalan.dev · linkedin.com/in/victor-balan-a840a599 · github.com/victorbalan

SUMMARY

Senior Full-Stack Engineer with 13+ years of experience building products across the full stack — from live TV broadcast tools and content scheduling platforms to blockchain wallets, decentralized exchanges, and enterprise dealer management systems. Currently exploring how AI agents can improve developer workflows in legacy codebases.

EXPERIENCE

Senior Full-Stack Engineer

Oct 2019 — Present

[Social News Desk](#)

- Built a live social-media-to-broadcast application that lets TV presenters configure layouts and interact with social posts in real time on air
- Built a content scheduling platform with a responsive drag-and-drop calendar, handling 100+ social accounts and 2,000+ concurrent posts
- Led the full migration of the front-end codebase from AngularJS to React
- Developed a unified content publishing platform supporting all major social networks, with integrated AI-powered content suggestions
- Created a social network content archiving tool for long-term storage and compliance
- Maintaining and optimizing internal LLM documentation to improve AI-assisted development workflows across the engineering team

Technologies: TypeScript, JavaScript, React, Next.js, Node.js, AWS Lambda, Tailwind CSS, SCSS

Blockchain Consultant

Jun 2018 — Oct 2019

[Centrys](#)

- Implemented a digital wallet for the Aion blockchain
- Built an end-to-end (front end to blockchain) message signing/decryption mechanism
- Developed and coordinated the implementation of a fully decentralized exchange house
- Implemented a hierarchical deterministic keypair generation algorithm for the Aion blockchain (SLIP-0010)
- Developed JavaScript blockchain interaction helpers
- Implemented custom RLP and transaction signing for JavaScript
- Implemented a Chrome extension for the Aion wallet

Technologies: Go, React, Solidity, Blockchain, Node.js, Spring Cloud, MySQL

Software Developer

Aug 2016 — Jun 2018

[Aera Technology](#)

- Modernized the existing application by splitting code into multiple self-sustained modules and redesigning the architecture from monolith to microservices
- Built a visual programming tool for less technical or non-technical people
- Designed and implemented a JSON configuration protocol for dynamic UI rendering across web applications
- Created a UI-building tool for non-technical people
- Added dependency management and updated the build system from Ant to Gradle

Technologies: Java, Spring Cloud, Docker, Polymer, MySQL, Spring Boot, Spring MVC

Software Developer

Sep 2013 — Aug 2016

[Cloudflight](#)

- Developed a very large dealer management system using Spring, Tapestry, and Thymeleaf
- Built a platform for technical interviews, which supported around 20 languages for running user code
- Created an application for wind turbine anomaly detection using images from autonomous drones
- Implemented a powerful rendering engine with JavaFX and OpenGL
- Created a multiplayer game where the characters were actual code written by end users using the provided APIs

Technologies: Java, Spring, Go, Node.js, Docker, OpenGL, AngularJS, Polymer, Thymeleaf, JavaFX

Intern Software Developer

Jul 2013 — Aug 2013

[Tecknoworks](#)

- Implemented an internal time management tool using Node.js
- Built an internal seat management application that dynamically assigned different seats every week so that everyone had the opportunity to interact with one another
- Delivered both applications ahead of the internship deadline

Technologies: Node.js

FEATURED PROJECTS

Social News Desk App

A platform for newsrooms to manage, schedule, and broadcast social media posts directly on live television. Migrated the entire front end from AngularJS to React.

Technologies: React, Node.js, AWS Lambda, JavaScript

Aion Desktop Wallet

A standalone desktop wallet for the Aion blockchain. Besides the usual transaction sending and history, it supports creating and restoring multiple accounts with a single mnemonic via a custom implementation of hierarchical deterministic keypair generation (SLIP-0010).

Technologies: Java, React, Blockchain

Coduno

A technical interview platform implemented with Go, Polymer, and Docker. Supports 20 programming languages, easily configurable challenges, and a secure Docker runner for executing user code.

Technologies: Go, Docker, Polymer

Theo Project

A fully decentralized global marketplace built at Centrys. Contains multiple projects under its wing, but the most notable is a fully decentralized exchange house based on the Aion public blockchain.

Technologies: Blockchain, Spring, Java, React, MySQL

Koding Hackathon

Top 10 out of 98,000 teams in the 2016 Koding Hackathon. Developed a racing game for kids to learn programming — they write rules in JavaScript to control how their car behaves in different situations.

Technologies: Node.js, JavaScript

SKILLS

JavaScript, TypeScript, Java, Go, React, Next.js, HTML / CSS, SCSS, Tailwind CSS, Redux, Node.js, Spring Boot, Spring Cloud, Spring MVC, Microservices Architecture, AWS, AWS Lambda, Amazon S3, Docker, Linux, MySQL, PostgreSQL, MongoDB, SQL, Blockchain, Solidity, GitHub, Agile Development, OpenGL

EDUCATION

Babes-Bolyai University

2012 — 2015

Bachelor's Degree, Computer Science — Cluj-Napoca, Romania

ACHIEVEMENTS

- Toptal Verified Expert — top 3% of freelance talent network (since 2018)
- Koding Hackathon — Top 10 out of 98,000 teams (2016)