

# Luka Ramishvili

Node.js developer and System Architect

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## Work experience:

**2022 – recent**      CTO, Medicloud Georgia

**Project:** Medicloud

**Responsibilities:** Technical decision-making, making sure business team needs were met with optimal solutions, taking care of good development process, code style & guideline, code review, DevOps, CI/CD, designing break-resistant informational security architecture with damage control; up-to-date documentation, growing team expertise with literature, methodologies and practices (functional programming; data-oriented programming).

**Stack:** Node.js, PostgreSQL, Kubernetes, kOps, AWS, Minio, RabbitMQ, Redis, React, React Native, Redux ToolKit Query

**2021 – 2022**      Tech lead, Node.js/AWS Serverless, Star Global

**Project:** VioletPay

**Responsibilities:** Managing technical team, designing backend architecture, choosing technology, DevOps, CI/CD, documentation, integrating with U.S. ACH payment network.

**Stack:** Node.js, TypeScript, PostgreSQL (AWS Aurora), Serverless.com, AWS Lambda, SQS, S3

**2020 – 2021**      Node.js/AWS Serverless backend developer, Flow Your Money Automation B.V.  
(Fintech startup in NL)

**Project:** FlowYour.money

**Responsibilities:** Writing highly effective, performant and secure code for bank API integration using EU Payment Services Directive (PSD2). Designing and implementing a subscription payment module.

**Stack:** Node.js, TypeScript, DynamoDB, AWS Lambda, SQS, S3, Clojure.

**2019 – 2020**      Node.js team lead, Webiz Georgia

**Project:** Envite

**Responsibilities:** Managing a team of six, bringing the eshop plugin to production release; code review, mentoring.

**Stack:** Google Cloud serverless, Firebase, Firestore, React, Redux.

**2018 – 2022**      Advisor / mentor, Node.js/Javascript/development best practices, zero gravity LLC

**Project:** JSC Alpha customer-serving system and retail insurance app (web portal, insurance management software, mobile app, API integration)

**Responsibilities:** Architecture, security, managing the team, communicating with the client and software vendors.

**Stack:** Node.js, PostgreSQL, nginx, Ubuntu, React, React Native, Storybook.

**2018 – 2020**      Node.js/Javascript independent contributor/corporate library developer, JSC Liberty Bank

**Project:** CRM

**Responsibilities:** Provided developers with an unified Javascript component library and API. This grew into a separate project supporting 10+ teams, while the library remained functional across different frameworks.

**Stack:** Node.js, TypeScript, Verdaccio, RollUp, Nunjucks, SCSS.

**2015 – 2018**      Lead developer, Node.js/VOD/horizontal scaling at Web Intelligence

**Project:** Keep Your Light Shining (TV station real-time voting mobile app and backend)

**Responsibilities:** Tech lead, implementing the project in a very short timeframe (right after GDson.net), designing the real-time live voting system, tuning Linux systems for receiving more TCP connections, delegating and managing non-critical tasks like admin panel and design with team members.

**Stack:** Node.js, MySQL (AWS RDS), HaProxy, AWS EC2, Javascript, WebSocket, Phonegap.

**Project:** GDson.net (similar to Netflix but with local TV shows)

**Responsibilities:** Tech lead, implementing the project in a very short timeframe, designing a high-traffic video streaming backend with RTMP (for Flash clients) and HLS (for web clients). Did the backend twice: once with AWS CloudFront and then, for cost-saving, re-architected using open-source Red5 library (instead of CloudFront RTMP) and nginx mp4 module, while keeping the same horizontal scaling guarantees.

**Stack:** Laravel, MySQL, redis, nginx, nginx mp4, Red5.

**2012 – 2015**      Team lead, PHP/Javascript, SparkInnovation (now Potters); tech founder at an HR startup, hrguru.ge; AI researcher at IliaUni, developing a human-machine interface for the hearing impaired

**Project:** HRGuru.ge

**Responsibilities:** Communicating with the business team to deliver a feature-rich job-hunting and certification web app.

**Stack:** Common Lisp, Hunchentoot, PostgreSQL, CentOS.

**2011 – 2012**      .Net/Javascript Programmer, Alliance Group Holding

**Project:** BIA.ge

**Responsibilities:** Designing and architecting a very flexible and data-rich company catalog. All data changes required approval from a supervisor, so all changes were serialized and stored in XML, then were turned into editable HTML forms again using XSLT, and changes were only applied to the SQL database after approval.

**Stack:** C#, .NET, MS-SQL Server, XML, XSLT, Javascript, jQuery, HTML/CSS, Bootstrap.

**2008 – 2011** Founder/developer, PHP/Javascript, SkyGraphic Studio

**Project:** ProductInfo

**Responsibilities:** Designing an ERP system, store management and point-of-sale program for local businesses, warehouses and stores with multiple branches and different modes of operation (back-end warehouses and front-end stores).

**Stack:** C#, .NET, MS-SQL Server, XML, WinForms, government revenue service API integration.

**2007 – 2010** Programmer/web developer, PHP/Javascript, 42Gradusi.com.

**Project:** CMS, used for dozens of web pages and web apps

**Responsibilities:** Refactoring company CMS system from basically a PHP include script to a module-based, configurable system. Integrated a Macromedia (now Adobe) Flash frontend with said CMS (read: made content manageable on Flash websites), which was a technological feat and a rarity at the time.

**Stack:** PHP, Javascript, jQuery, HTML/CSS.

## **Education:**

2010 – 2014	Georgian Technical University, Computer Science Faculty, Bachelor's degree
2007 – 2010	Iv. Javakhishvili Tbilisi State University, Computer Science Faculty
1996 – 2007	Tbilisi 6th Gymnasium

## **Teaching experience:**

2014 – 2015	User Experience Design teacher at Caucasus University (CST)
Nov 2012 – Jun 2014	Web Development teacher at college Barakoni (designed my own course)

**Languages:**

- Georgian - native
- English - fluent / bilingual
- German – B1
- Russian - fluent (prefer not to use)

**Date of birth:** 13/01/1991

**Place of birth:** Tbilisi, Georgia

**Nationality:** Georgian

**Marital status:** Married

**Hobbies:** writing music, reading, watching good movies, hacking (programming), learning new programming languages and paradigms, organizing hackathons (uniHack)

**Favorite vocational books:**

Peopleware: Productive Projects and Teams (3rd Edition) – Tom DeMarco, Tim Lister

The Mythical Man-Month: Essays on Software Engineering, Anniversary Edition (2nd Edition) – Frederick P. Brooks Jr.

Coders at Work: Reflections on the Craft of Programming – Peter Seibel

Founders at Work: Stories of Startups' Early Days – Jessica Livingston

On Lisp – Paul Graham

Practical Common Lisp – Peter Seibel

## **Skills and knowledge**

### **Backend:**

Languages: Javascript (ES9), Typescript, Node.js, Python, C, Common Lisp, Clojure, ClojureScript. Past experience: C# (.NET ecosystem), PHP/Laravel

Servers: Node.js (async backends); NGINX (incl. high-performance optimization); Apache; HAProxy (load-balancing); CentOS 5/6/7, Ubuntu 14/16/18.04/22.04 (advanced Linux server configuration)

Infrastructure/Infra-as-code: Serverless.com, AWS CDK, Kubernetes

Databases: MySQL, PostgreSQL, MySQL, MS-SQL (relational/ORMS database programming)

API design: OpenAPI spec, Swagger, REST, GraphQL.

Containers/VMs: Docker, Docker Compose, Vagrant, EC2

### **DevOps:**

Kubernetes, AWS (), automation, deployment, CI/CD, Jenkins, auto-scaling (AWS; custom server-side architectures), monitoring

Designing high-load, high-performance distributed systems with scalable architectures (Node.js, NGINX, HAProxy, AWS, custom Linux server configuration).

### **Soft skills:**

Agile (Scrum, Kanban); UX (intuitive, human-centered interface design); non-technical conversational ability; translating business requirements into technical specifications; ability to see the big picture and plan for growth

Managing teams; working as a team member; creating intuitive user interfaces, training users, writing manuals and technical documentation, designing usable programming APIs, libraries and frameworks.

### **Frontend:**

React, React Native, Vue, Bootstrap, SCSS/SASS, postmodern (Common Lisp), re-frame (ClojureScript). Past experience: Vue, Nunjucks, jQuery, jQuery UI

Lein, webpack, gulp, rollup (advanced configuration), verdaccio (private npm registry)

### **Tools:**

Editors – Emacs, Eclipse, vi

Source control – Subversion, CVS, DVCS - git (Git Flow), Mercurial

Office and graphical tools – LibreOffice, GIMP, Inkscape, Blender, Photoshop, Illustrator, InDesign, XD

**Operating systems & environment:**

UNIX, GNU/Linux, FreeBSD, macOS, ability to work without a graphical interface, in a terminal.

Extensive knowledge of UNIX commands and their practical, orthogonal usage.

Non-extensive knowledge of perl, writing backup scripts.

Learning Scheme, Haskell and OCaml in my spare time.