

Enver Biševac

Staff Software engineer II

Osmana Dervisnurevica 19
Novi Pazar, 36300, Serbia
+381 63 618 900
enver@bisevac.com

Cloud Computing Enthusiast | 20 Years of Software Engineering Expertise

An accomplished Staff Software Engineer II with an impressive 20-year journey in the realm of software engineering. My passion lies in architecting and building scalable, innovative solutions that make a real impact.

My professional journey has led me to work across diverse domains, including DevOps, Point of Sale (POS), CRM, ERP, Learning platforms, and Information systems. I'm deeply entrenched in the world of Cloud Computing and have played a pivotal role in developing CI/CD pipelines that streamline the development process.

In the last couple of years, my work has revolved around Feature Flags and Source Code Management (SCMs), enabling teams to adopt agile development practices effectively. I'm passionate about Cloud applications, and my expertise extends to building robust Cloud-native solutions using Golang. Additionally, I've ventured into system programming with Ziglang to push the boundaries of what's possible.

Beyond my professional pursuits, I'm an avid reader who enjoys diving into the depths of programming languages, paradigms, and design patterns. This love for continuous learning keeps me at the forefront of the ever-evolving tech landscape.

EXPERIENCE

OneClick, Novi Pazar — *Golang*
Consultant – *elasticpos.com*

May 2023 – Present

I led the architecture, development, and consultation for the **ElasticPOS** system, a decentralized point-of-sale solution designed for reliability and accessibility in diverse retail environments.

Key Contributions:

- **System Architecture:** Designed a decentralized, cloud-accessible POS platform with a focus on resilience, ensuring **continued operation during intermittent or unstable network conditions**.
- **HTTP Tunneling for Connectivity:** Enabled secure remote access from client machines over the internet using **HTTP tunneling**, allowing centralized visibility and control without requiring complex VPN setups.
- **Team Leadership & Consulting:** Mentored the development team and provided technical direction on software design, deployment strategies, and implementation patterns.
- **Custom Feature Development:** Defined and delivered key features tailored for retail workflows, including offline-mode synchronization and inventory tracking.
- **DevOps & Deployment:** Guided the setup of cloud infrastructure and deployment pipelines to ensure high availability and ease of maintenance.
- **Agile Execution:** Helped structure development using Agile methodologies, with continuous feedback loops and iterative delivery.

This role required combining **deep technical insight**, **real-world problem-solving**, and **strategic thinking** to deliver a production-grade POS solution accessible from anywhere, even in **low-connectivity scenarios**.

Harness, Belgrade — *Golang, Java, Python, Ts/JS Node*
Staff software engineer II

May 2021 – Present

CI/CD Solution Development: Spearheaded the design and development of cutting-edge CI/CD solutions using Golang, Python, and Java. Played a developer role in enhancing the Harness platform's capabilities, making it more robust and feature-rich.

Feature Flags: Designed and implemented Feature Flags, enabling agile development practices and controlled feature releases. These flags facilitated risk-free experimentation and improved the overall development workflow. <https://www.harness.io/products/feature-flags>

Git Source Control Management: Developed "Gitness," a source control management tool akin to GitHub. This contribution empowered teams with a powerful tool for version control, collaboration, and code management, fostering a streamlined development process. <https://gitness.com/>

SDK Development: Crafted multiple SDKs for Feature Flags, simplifying integration with Harness and enabling developers to easily leverage feature flagging in their applications.

Open Source Community Engagement: Actively contributed to the open-source community by sharing code, libraries, and insights, fostering collaboration and innovation within the tech ecosystem.

Git Internals Expertise: Delved into the intricacies of Git internals, gaining a deep understanding of its mechanisms and contributing to its improvement.

Key Technologies and Tools Utilized:

- **Languages:** Golang, Python, Java
- **Databases:** Postgres, Sqlite
- **Version Control:** Git (including Git Internals)
- **Caching and Messaging:** Redis stream, Redis lock, Redis cache
- **Containerization and Orchestration:** Docker, Helm, Kubernetes

Endava, Belgrade — *Java, Golang*

Consultant developer – unified engineering

September 2019 – February 2021

As Senior software engineer my role in Endava was development and provisioning services on Azure platform using Azure Java SDK and REST API. Enterprise applications (Service Principals), Active Directory, CosmosDB, KeyVault, ARM templates etc. It was outsourced project- microservice for Adobe client. My next position was lead developer in CI product development using Golang toolchain, Redis(Cache, Stream), Pushpin, NATS, EventBus, Postgres, Docker for Harness (feature flag). My role was also to organize the architecture and design documents (SWAGGER or APIARY bp) so other team members can easily develop using design first approach (REST) with DDD concept and mixed hexagonal and event driven architecture.

HalalForMe Inc — *React native developer*

February 2019 – September 2019

My role in this project was enhance mobile application with features: adding and editing places, user profile management, favorites, visited, share, refactoring code for location services, job queue for network operation and search with autocomplete.

SKILLS

Programming languages:

GoLang, Python, Java, JS/TS
learning: zig and elixir

Brokers: RabbitMq, Redis stream, NATS

Storage:

RDBMS and NoSQL databases

Frontend:

React.js, ReactNative

Tools:

Git, Docker, Kubernetes, Helm

Cloud providers:

GCP, AWS, Azure, DigitalOcean, Fly, Render

Desktop and Mobile:

Nwjs, Electron, ReactNative, GolangWails

Colaboration & Project

IKRESOFT DOO, Novi Pazar — *Python and Android developer*

November 2014 – 2019

As python developer I am working on designing and programming REST API calls for various projects. I am using swagger tool for declaring, documenting and testing API and for implementation django rest framework. Android development of two apps I am using Android Studio with Android SDK.

Projects: CloudBar POS, CloudBar Server, CloudBar Android, CloudBar Manager, Ads/Oglasi, Autoprivat24.ch, b2b garment industry, cloud based TAXI tracking system, Loyalty system based on blockchain (research project).

University of Novi Pazar, Novi Pazar — *Teaching assistant*

October 2012 - August 2014

Practical lab exercises for subjects:

- Internet programming
- Web application development
- Android Development

University of Novi Pazar, Novi Pazar — *Software developer*

March 2009 - February 2012

As Software developer my responsibility was to develop and build all university services online using web technologies. Administration and students services replaced with new intuitive interface very known to both parties. Technologies I used in project: python/django, html, css, jquery.

Projects: UNIS, Online library, Students Desk, Financial App, Unipedia, Website www.uninp.edu.rs, portal.uninp.edu.rs

IKRESOFT DOO, Novi Pazar — *Founder and CEO*

June 2004 – February 2009

Company business was development of accounting software based on Borland Delphi RAD and client/server architecture using rdbms FirebirdSql. We developed for 5 years many Borland package libraries for modularity in the project using plugin architecture.

Managment:

Jira

LANGUAGES

Serbian / Bosnian – native English – fluent

SOCIAL NETWORKS

[LinkedIn](#)

EDUCATION

University of Niš, Niš, Serbia — *PhD student*

October 2018 –

Department: Computer Science

University of Novi Sad, Technical Faculty “Mihajlo Pupin”, Zrenjanin— *M.Sc. Graduated*

Engineer of Informatics October 2007 - January 2009

Department: Computer Science

University of Novi Pazar, Novi Pazar— Graduated Engineer of Information Technologies

October 2002 - July 2006

Department: Computer Science

PUBLICATIONS

1. Implementation of the convex polygon triangulation algorithm
2. Encryption based on Ballot, Stack permutations and Balanced Parentheses using Catalan-keys
3. [Application of Catalan Numbers and the Lattice Path Combinatorial Problem in Cryptography](#)

RESEARCHGATE

https://www.researchgate.net/profile/Enver_Bisevac

GITHUB

<https://github.com/enverbisevac>

PROJECTS

Listed projects and details are on next page.

Printer (2019-2020) - Golang application

Printing from web apps directly to POS or any other software/hardware give you advantage for your PWA applications or classic web applications. The main benefit is to move generation and printing system to the client side so any javascript web app can do communication via REST or gRPC and using just HTML and CSS we can print to any device. For example Epson ESCPOS standard (usb, serial, parallel) or PDF invoice generation (file). My responsibility was to design and implement MVP so later can be adopted to other system in area where browsers can't help because of security concerns. The project contains 4 tools:

4. Server
5. Communicator (usb, serial, parallel etc)
6. Drivers (formatters)

Technology: GoLang, Javascript/Vuejs, REST, CLI

HalalForMe (2019-2019) — React Native application

HalalForMe is cloud based product with large api offering restaurants, hotels and other places for specific group of people following HALAL and Kosher standar. My role was to add new fetarues to mobile app based on react native platform.

Technology: JavaScript, React Native, Expo, REST
<https://play.google.com/store/apps/details?id=me.halalfor.finder>

CloudPOS (2014 -) — Point of Sale

This project contain three modules: CloudBar, CloudRetail, CloudRoom. CloudBar.rs module is solution for restaurant business, CloudRoom is for hotel management business and Retail is for all other POS types of bussines. All services runs on cloud infrastructure. Web services are developed in python / django with django rest framework and backed by MySql rdbms with task queue celery/rabbitmq. Desktop clients is Electron and NWJs JavaScript app builded for Windows, Linux and Mac OS X. Android clients like CloudPos application has ability to work offline while temporary internet connection goes down that was my biggest challenge. Android CloudPos has almost all features of classic desktop Cloud POS application builded by Javascript and NWJS. Android apps are primarily based on Android SDK but I am looking into React Native framework for future releases for android and ios platform.

Oglasi (2012-2014) — Web application

Oglasi is very robust web application for classified ads with powerful feature for finding similar products based on semantic classification of product details. For this project I use gensim library.

Technology: Python/Django, Mysql, Android SDK, Gensim

Autoprivat24.ch(2014-2015) — Web application

Online system for searching and adding vehicle ads. All features included: adding, promoting, searching ads and messaging between clients and sellers. Its responsive solution and worked on all modern browsers.

Technology: Python/Django, Html5 Css3, JQuery

eIndexApp(2016 -) — Student

Research project

Android application simulating student document "index". This application mean to replace real document and using it for various systems like authentication, grades and financial reports.

Technology: Android SDK (Java)

Acc(2005 - 2014) — Information system

Information system for small size companies. Accounting, Inventory, Reports, POS

Technology: Object Pascal(Delphi), FirebirdSql, Php, Mysql, FOP, XSLT

Technology: Python/Django, Java (Android SDK), Javascript (ReactJs, ReactNative), Celery, RabbitMq, Docker, Git, Mysql, Firebase

<https://www.caffetouch.com>
<https://play.google.com/store/apps/details?id=com.ikresoft.caffedroid>
<https://play.google.com/store/apps/details?id=com.ikresoft.caffetouch.manager>
<https://play.google.com/store/apps/details?id=com.ikresoft.caffetouch.cbr>

CloudTAXI(2018 -) — Logistic and tracking

Research project

Ordering and tracking TAXI vehicles using gps and mobile devices. With collected data we can generate various reports like finance or vehicle usability and most important is traffic condition.

Technology: Python/Django, RethingDb, NodeJs, MySql, Firebase

UNIS(2009-2012) — Information system

University Information System is complete system for managing all paperwork for students and administration through online applications. CMS, DMS, ePortal etc.
www.uninp.edu.rs

Technology: Python/Django, Mysql, Html5, Css, JQuery, ReportLab

<https://portal.uninp.edu.rs>