Adnan Elezović

Software Engineer





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Contact L

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Personal data

Born 02.10.1994. In Konjic, BA/BiH

Education

2009-2013

Secondary School for Electrical Engineering in Sarajevo Degree obtained: IT technician

2013-2019

University in Sarajevo, Faculty of Electrical Engineering Degree obtained:

Bachelor's degree programme "Computing and Informatics" BsC Thesis: GameBoy Classic and Color Emulator

2019-2022 (expected)

University in Sarajevo, Faculty of Electrical Engineering Degree to be obtained: Master's degree programme "Computing and Informatics"

Key Skills

Java 14 Microservices Vert.X Spring MVC Spring Reactor Swagger Containers (Docker) Kubernetes Reactive programming Oracle Database Elastic Search Kibana Loa4J **REST** RabbitM0 ActiveMQ WSO2 API GW and IdP Codegen (using Mustache)

Apache jMeter

RxJava2 Maven Git

Experience

July 2019-Present

Senior Software Engineer • ITMR d.o.o • Sarajevo Working on highly scalable backend systems powering banking and "lifestyle banking" services for over 500.000 users in Germany. As the current backend lead, my responsibilities include, among others, development, 3rd party integrations, client and 3rd party communications, task specification, and code review. Actively maintaining over 50 microservices, from the initial development to deploying and running it inside a Kubernetes cluster.

Aside from development, my responsibilities often include segments which would otherwise be classified as DevOps/Sysadmin, such as: automated builds and deployments (build scripts and Jenkins pipelines, Kubernetes resource configuration), SSL certificates managing, stack monitoring, load analysis, heap dump export & analysis, automated uptime monitoring.

Last change: 10. 9. 2021.

Key Skills

Teaching Public speaking

October 2018—February 2019 (5 months)
Demonstrator • Faculty of Electrical Engineering • Sarajevo
Demonstrator on the faculty course "Razvoj programskih
rješenja" (Development of programming solutions). The course
covered application development in Java and general
development concepts and design patterns.

Key Skills

Java 11
Microservices
Vert.X
GraphQL
Angular
PostgreSQL
JDBC
RxJava2
JetBrains TeamCity
Android SDK
Android NDK
C++11

May 2018—August 2019 (1 year, 4 months) Software Engineer • Monri Payments • Sarajevo

Full stack development of enterprise systems integrated in public transport and banking. Responsible for the complete development of features from the client communication, backend development (incl. database changes), up to the final frontend changes visible to the end-user. Projects also included embedded development using C++ and Yocto Linux.

Key Skills

Native Android
PHP
PHP Doctrine
GraphQL
Angular
PostgreSQL
mySQL
C++11
RTSP

December 2014—May 2018 (3 years, 6 months) Software Developer • American University in Bosnia and Herzegovina • Sarajevo

Full stack (mostly LAMP) software developer and maintainer for various inhouse applications which include mobile apps (android native), front end web applications, and backend systems, including database design.

Activities and Interests

Hobby Programming
Game Development
Video Games
"Under the hood"
understanding of
computer architectures

Notable side projects

mipsy

Since my personal passion is understanding things as close to the metal as possible, as part of one university course I have developed a simulator for the MIPS architecture. The main objective was to show and demonstrate how CPU instructions are realized on the hardware level. The project is publicly available on my GitHub profile (link).

RTSP2VCAM

A Windows DirectShow filter to forward a configured RTSP stream to video output. The application consists of several windows libraries (DLL files). When registered, applications that use local cameras (e.g. Skype or flash) see the custom virtual camera listed, and when loaded initializes the connection to the RTSP stream. The RTSP video gets redirected to the camera video output. Multiple sessions share the same frame data through memory files by writing frame data into shared RAM space (thus not needing to connect multiple times or render frames individually).

The project is not yet made public, as it requires to be properly documented and reviewed for third party contributions in order to be credited accordingly. After that, it is planned to be open source, hopefully under GNU GPL. In any case, I would happily showcase this locally during an interview or casual coffee break, if there is any interest to do so.

StudyBoy

A fully fledged GameBoy Classic and Color emulator. This project served as my BsC thesis and helped me close the circle of understanding everything from high level languages, their compilation, up until the execution of a single insruction by the CPU. The project is publicly available on my GitHub profile (link).

NOSferatu16

Another simulator for the CPU architecture "SveU16", a (rather simple) CPU architecture used throughout the course "Napredni Operativni Sistemi" (Advanced Operating Systems) in the masters programme in the University of Sarajevo. Unlike mipsy, it focuses on the video output of the architecture, visualizing the screen and memory content during runtime, in real time. The project is publicly available on my GitHub profile (link).

Misc. skills

These are some skills that I believe are worth mentioning but weren't covered in the past sections. These are mostly skills acquired through smaller side projects (freelance or hobby) that I have since removed from my CV to avoid clutter. They are listed in no particular order.

- Intermediate knowledge of C and C++ (C++11)
- Node for backend (preferably written in TypeScript)
- C# (.NET and Mono)
- Unity 3D
- Unreal Engine 4
- PICBasic (PIC16F877A microchip programming)

Languages

		Understanding		Speaking		Writing
		Listening	Reading	Spoken	Spoken	
				interaction	production	
Ī	English	C1	C1	C1	C1	C1
ſ	German	C1	C1	B2	B2	C1

Note: The above values were filled in by personal judgement. No certification has been obtained yet. Although please keep in mind that I have intensively worked with foreign companies with which I communicated daily through development in both German and English, spoken and written.