Lenka Nedeljkovic

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🏫 Education

The First Grammar School of Kragujevac - Special Mathematics Department (2011–2015)

Faculty of Engineering, University of Kragujevac - Computer Technology and Software Engineering (2015–2019)

🖊 Personal Statement

A dedicated and versatile individual with a keen eye for identifying bugs and strong problem-solving skills. I approach work with an open mind, striving to think outside the box, which contributes to generating creative and practical solutions. I collaborate well within team environments, guided by practical Scrum principles such as: "If you don't have a solution, ask a teammate." I highly value time efficiency and transparency, and I am passionate about delivering impactful products focused on both technical quality and business results.

I am motivated by continuous growth, deepening knowledge, and the successful implementation of ideas that create meaningful business impact. I aim to become one of the leaders in a specific technical field where I can create meaningful impact and fuel the work with insightful ideas.

Driven by a desire for comprehensive understanding of web application development, I have proactively pursued both frontend and backend technologies, with a stronger focus on backend, to broaden my skills and contribute effectively throughout the entire development lifecycle.

💼 Work Experience

Junior Software Engineer, 4 IT doo
— 1-month internship during studies (2019)

Led a small project migrating the application from Angular 2 to Angular 7, including creating the foundational structure for the new project by analyzing the application's functionality and user behavior. [1]

Junior Software Engineer, Maxeler Technologies
— 6 months (2020)

Executed manual test cases to ensure quality and functionality of Angular applications.

Managed server room operations and performed system deployments.

Angular Developer, Quantox Technology DOO Čačak
— 6 months (2022)

Developed frontend using Angular, applying best practices to deliver a high-quality user experience on web and mobile.

Laravel Developer, Quantox Technology DOO Čačak
— 4 months (2023)

Gained practical experience with the Laravel framework through hands-on trial projects.

Software Engineer, Destination Certification Inc.
— 14 months (2024–2025)

Led end-to-end development and designed and implemented a backend system with Next.js for managing API keys, supporting access control for user profiles consuming our services.

Led the in-depth analysis of the existing database, including all relations and data, to ensure a smooth migration to a new system. Solely designed and created a new, optimized database structure.

Designed and implemented an ETL system using Next.js to facilitate data migration.

👥⚙ Skills

1. Deep knowledge of theoretical, applied, computational, and analytical mathematics

2. Solid understanding of algorithms, problem-solving techniques and common software design patterns

3. Experienced in programming with C# and C++

4. Working knowledge of JavaScript, Typescript, HTML, and PHP, CSS

5. ⚜ Oracle Certified Java Programmer [2]

6. Frontend and backend experience with Next.js, Angular, Laravel, CodeIgniter. Experience with RESTful API design and integration.

7. Experienced in SQL, database design, and query performance tuning; Familiar with schema optimization and UML diagram design (PowerDesigner); Skilled in MySQL and cloud database platforms such as PlanetScale.

8. Working knowledge of Python; comfortable with the language but open to further learning and refinement.

9. Deep Learning, DNN; Familiar with deep learning concepts and the underlying mathematics, standard techniques and optimization algorithms. [3]

10. Basic knowledge of Linux shell scripting

11. Experience with version control tools: Git, GitKraken, GitHub

📖 Web Courses

- Deep Learning Specialization – Coursera (Andrew Ng)
  (https://www.coursera.org/specializations/deep-learning)

- Java Fundamentals & Java Programming – Oracle Academy,
  Certifications: https://github.com/lenkacned/certificates/tree/main/Oracle%20Academy

- Angular Course – Andris Vilde (https://github.com/avilde/av-recipe-book)

- Laravel 8 From Scratch – Jeffrey Way (Laracasts) (https://laracasts.com/series/laravel-8-from-scr

👥 Professional practice during studies

"4 IT doo"   (2019, Kragujevac)

- **Scrum in practice**
- Developed Angular application for airport system
  – Migration of an application built with Angular 2 to Angular 7, with the goal of improving
  performance and easing system maintenance.

🏅 Honours and Awards

Participation in the Huawei Seeds for the Future Program 2019.

It was an honor to attend classes at the Huawei Training Center, where I learned about 5G network technology. During the visit, I also studied Mandarin and visited cultural landmarks from previous Chinese dynasties.

[Shenzhen and Beijing, China — 12/6/2019 to 12/20/2019]

Certificate of successful program completion:
https://github.com/lenkacned/certificates/tree/main/Huawei

Vuk Karadžić Diploma — Elementary School
Awarded for outstanding academic excellence throughout primary education.

Participation in Mathematics and Physics Competitions and Awarded Educational Trip

Regularly represented school at municipal and regional-level contests in mathematics and, less frequently, physics. As a result of academic achievements and competition performance, selected as one of the top-performing students in my elementary school for an educational and cultural trip to Greece, North Macedonia, and Bulgaria. Visited historical landmarks such as the Serbian Military Cemetery in Thessaloniki and the Blue Tomb (Plava Grobnica) on Vido Island.

🧪 Faculty Projects

🎓 Graduate Thesis:

Prediction of raspberry plant diseases using Convolutions in Deep Neural Networks

Tools: Anaconda, numpy, scikit-learn, matplotlib, PIL, math, io, Jupyter Notebook
Project link: https://github.com/lenkacned/projects/tree/main/Diplomski%20rad
Built using concepts from: Deep Learning Specialization [4] by Andrew Ng (Coursera).

Course: **Computer Architecture**
Project: Blinking odd-numbered diodes using PIC18F45K20 microcontroller
Tools: MPLAB X IDE v3.51
https://github.com/lenkacned/projects/tree/main/Arhitektura%20racunara

Course: **Basic of Computer Engineering 2**
Project: Security alarm with fire sensor with Spartan 3E FPGA
Tools: Logisim, Xilinx ISE 14.7
https://github.com/lenkacned/projects/tree/main/Osnovi%20Racunarske%20Tehnike

Course: **Object-Oriented Programming**
Project: Tourist Travel Booking Program
Tools: Java, NetBeans IDE 8.2, UML diagrams
https://github.com/lenkacned/projects/tree/main/OOP

Course: **Microprocessor Systems**
Project: Robot movement control using step motors (forward, left, right, speed control)
Tools: PIC18f4520 microcontroller, IR sensor, LED bar, signal control driver, MPLAB X
https://github.com/lenkacned/projects/tree/main/Mikroprocesori

Course: **Programming Internet Applications**
Project: Music band gathering website for Serbia
Tools: PHP, HTML, CSS, JavaScript, WAMP
https://github.com/lenkacned/projects/tree/main/Programiranje%20Internet%20Aplikacija

Course: **Databases**
Project: Electronic pharmacy recipe management system

Tools: PowerDesigner, SQL
https://github.com/lenkacned/projects/tree/main/Baze%20podataka

Course: **Software Engineering**
Project: Shortest road finder in America based on real distances ("the shortest path problem")
Tools: C++
https://github.com/lenkacned/projects/tree/main/Softverski%20Inzenjering

Course: **E-commerce and Software Engineering 2**
Project: E-commerce web app for computer hardware
Tools: Angular 7, CodeIgniter
https://github.com/lenkacned/projects/tree/main/Softvesko%20inzenjerstvo%202/Angular

Course: **Expert Systems**
Project: Inflammation expert system
Tools: Java SE 1.5, Eclipse 4.2, Drools plugin
https://github.com/lenkacned/projects/tree/main/Ekspertski%20sistemi

Course: **Designing Information Systems and Databases**
Project: Student grade records system
Tools: C#
https://github.com/lenkacned/projects/tree/main/Projektovanje%20informacionih%20sistema%20i%20Baza%20podataka

Course: **Artificial Intelligence**
Project: Train direction prediction using neural networks
Tools: Anaconda, numpy, scikit-learn, matplotlib, Jupyter notebook
https://github.com/lenkacned/projects/tree/main/Vestacka%20Inteligencija

📖 Courses during studies

Find my course-book here: https://github.com/lenkacned/course_book