



## Regi Loshi

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### ABOUT ME

Hello, I'm Regi Loshi, a dedicated software engineering student in my third year at Epoka University. My passion for the world of software development and programming has been the driving force behind my educational journey.

I've eagerly embraced the opportunity to expand my skills and knowledge, and I've already embarked on a journey of self-learning. Through countless hours of exploration and practice, I've honed my abilities in a variety of programming languages, including Java, Python, HTML, CSS, and JavaScript.

What truly sets me apart is my hands-on experience in crafting personal projects that have allowed me to apply my acquired knowledge. These projects not only showcase my technical proficiency but also reflect my commitment to continuous improvement and innovation.

As I continue my academic and personal development, I look forward to tackling new challenges, collaborating with fellow enthusiasts, and contributing to the ever-evolving world of software engineering. My journey is just beginning, and I'm excited to see where my passion for programming will take me.

Thank you for taking the time to get to know me better, and feel free to reach out for any opportunities, collaborations, or discussions related to the exciting realm of software engineering.

### WORK EXPERIENCE

10/10/2024 – 20/12/2024 Tirana, Albania  
**BACK END DEVELOPER TIRANA.IT**

#### Back End Developer (Java, Spring Boot Framework):

- **Building RESTful APIs:** Using Java with Spring Boot to design, develop, and maintain APIs that interact with front-end services or mobile apps.
- **Database Management:** Working with relational databases like MySQL or PostgreSQL, as well as NoSQL databases like MongoDB.
- **Security:** Implementing secure authentication and authorisation mechanisms and ensuring data security.
- **Micro-services:** Developing micro-services architectures using Spring Boot, where each service is independent and communicates through APIs.
- **Error Handling & Validation:** Writing clean, maintainable code with robust error handling and validation processes.
- **Integration:** Integrating third-party services or APIs, message queues, or cloud services.

#### Git: Version System Control:

- **Branching:** Working on separate branches for different features, bug fixes, or experiments without affecting the main codebase.
- **Merging:** Combining changes from different branches after reviewing or testing, ensuring the stability of the code.
- **Version History:** Tracking all changes made in the codebase, which makes it easy to rollback to previous versions if issues arise.
- **Collaboration:** Working in a team where multiple developers may be working on different parts of the project. Git ensures that everyone's changes can be merged without conflicts.

#### Jira: Project Management Tool:

- **Track Work:** Each feature, bug, or task is tracked using an issue, with statuses like "To Do," "In Progress," "Done."
- **Agile Framework:** Participate in **Scrum** or **Kanban** boards, where you work in **Sprints** or with continuous task flows.

- **Manage Epics, Stories, Tasks:** Break down large pieces of work into manageable tasks (see previous explanation of Jira issue types).
- **Collaboration:** Communicate with the team by commenting on tasks, updating statuses, or attaching documentation.

10/03/2025 – CURRENT Tirane, Albania  
**FULL STACK DEVELOPER DIVISION5**

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**Front-End Development:**

- **React & Component-Based Architecture:** Building dynamic and reusable UI components for interactive web applications.
- **State Management:** Managing application state efficiently using Redux Toolkit, React Context, or local state.
- **Tailwind CSS:** Styling applications with Tailwind CSS for a clean, responsive, and modern UI.
- **Routing & Navigation:** Implementing client-side navigation using React Router.
- **API Integration:** Fetching and managing data from back-end services using Axios.

**Back-End Development:**

- **Node.js & Express.js:** Developing RESTful APIs to handle requests, process data, and serve front-end applications.
- **Database Management:** Using PostgreSQL for structured data storage, writing SQL queries, and managing schemas with ORM tool Prisma.
- **Authentication & Authorization:** Implementing secure login, registration, and role-based access using JWT (JSON Web Token) and middleware.
- **Error Handling & Validation:** Ensuring code robustness with proper error handling and input validation using Zod.
- **Third-Party Integrations:** Connecting external APIs and implementing additional functionality as needed.

**Version Control (Git & GitHub/GitLab):**

- **Branching:** Creating feature branches to develop new functionality independently.
- **Merging & Pull Requests:** Reviewing, testing, and merging changes to maintain a stable codebase.
- **Version History:** Tracking all changes to allow easy rollbacks if necessary.
- **Team Collaboration:** Working in a team, managing merge conflicts, and ensuring a smooth development workflow.

**Project Management (Trello):**

- **Task Organization:** Managing tasks through Trello boards with columns like "To Do," "In Progress," and "Done."
- **Agile Workflow:** Using Kanban methodology to track progress and maintain efficiency.
- **Collaboration:** Assigning tasks, adding comments, and updating statuses to keep the team aligned.

● **EDUCATION AND TRAINING**

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17/10/2022 – CURRENT Tirane, Albania  
**SOFTWARE ENGINEERING** Epoka University

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Website <https://www.epoka.edu.al>

● **LANGUAGE SKILLS**

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Mother tongue(s): **ALBANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C1	C1	C1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

● **DIGITAL SKILLS**

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Html+CSS+JS | Java | Python | C | Git | MySQL | Jira | Node.js, React.js

● **DRIVING LICENCE**

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**Driving Licence:** B

## ● PROJECTS

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03/10/2024 – CURRENT

### C Compiler in Rust

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Currently developing a C compiler from scratch using Rust. The compiler handles parsing, lexical analysis, and code generation, transforming C source code into executable binaries. It leverages Rust's memory safety and concurrency features to ensure high performance and reliability. The project focuses on robust error handling, support for standard C syntax, and optimisation for efficient code execution.

Link [https://github.com/RegiLoshi/C\\_Compiler\\_In\\_Rust](https://github.com/RegiLoshi/C_Compiler_In_Rust)

### Movies4U

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Movies4U is a web application built using the MERN (MongoDB, Express.js, React, Node.js) stack. It provides a platform for users to watch, browse, like, and manage their favorite movies or shows.

Link <https://github.com/RegiLoshi/Movies4U-Netflix-Copy>

### Python Music Downloader and Player with GUI

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This project marks my first attempt at Python programming. I have utilized a pre-existing library to enable video downloads via provided links. The implementation features a user-friendly Graphical User Interface (GUI) that allows users to choose a folder for downloading or playing music. Users can opt to either directly download MP3 files to the selected folder or play music already present in the folder with the ".mp3" extension. While I had initially planned to add more features and improve the GUI, I have decided to set those plans aside for now to focus on other projects.

Link <https://github.com/RegiLoshi/Python-Music-Player-and-Downloader>

04/07/2023 – 02/09/2023

### Personal Portfolio Website

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I have recently created my personal website, located at regiloshi.com, as a platform to exhibit my portfolio of projects. This website has been meticulously crafted through the harmonious integration of HTML, CSS, JavaScript, and React, ensuring both functionality and visual appeal. Moreover, I have ensured that the website is fully responsive, guaranteeing an optimal user experience across various devices.

02/09/2023 – CURRENT

### SchoolMate: All-in-One School Management App

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"SchoolMate" is a comprehensive Java-based school app designed to simplify school life for both students and teachers. With an intuitive GUI, it offers a wide array of features, including adding friends, searching for people, chat, and easy access to your grades.

Key Features:

- Friendship Building: Connect with fellow students and build friendships within your school community.
- People Search: Find students, teachers, and staff quickly and easily through our user-friendly search feature.
- Chat: Stay in touch with friends, discuss assignments, and collaborate seamlessly using my built-in chat functionality.
- Grade Tracker: Keep a close eye on your academic performance with easy access to your grades and progress reports.
- Teacher Grading: Teachers can efficiently manage and update student grades.

In this project, i have used Java, JavaFX and MySQL.

## ● HOBBIES AND INTERESTS

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### Aspiring Software Programmer and Developer

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My enthusiasm for software programming and development goes beyond the classroom. I have a deep-seated passion for mastering the art of coding and creating innovative solutions. Programming isn't just a skill to me; it's a journey of self-improvement and creative expression.

In my free time, you'll often find me engrossed in coding projects and experimenting with various programming languages and technologies. I constantly seek opportunities to expand my knowledge by working on personal projects that challenge my problem-solving abilities.

I am driven by a strong desire to excel in the world of software development. I believe that each line of code I write is a step closer to becoming the skilled programmer and developer I aspire to be. I am committed to continuous learning and improvement, always seeking out online courses, coding challenges, and coding communities to enhance my skills.

I am captivated by the potential of technology to make a positive impact on the world, and my goal is to contribute to this transformation through my programming expertise. I look forward to the challenges ahead and am dedicated to the relentless pursuit of excellence in the field of software programming.

By showcasing my commitment to becoming a proficient programmer and developer, I aim to contribute meaningfully to the tech industry's evolution and create solutions that make a difference.