

# Saahil Mahato

Innovative Software Engineer with a strong foundation in developing and optimizing applications to enhance operational efficiency. With experience in both front-end and back-end development, I excel at creating user-friendly interfaces and implementing robust backend solutions.

02 Balkot, Suryabinayak,  
Bhaktapur, Nepal

(+977) 9840175706

[saahilmahato11@gmail.com](mailto:saahilmahato11@gmail.com)

[Linkedin](#)

[Github](#)

## EXPERIENCE

### Leapfrog Technology, Nepal — Software Engineer

JAN 2023 - PRESENT

- Accomplished optimizing business decision code for a healthcare application using Golang, resulting in improved code quality and more organized business requirements, which enhanced the efficiency of the operations team by effectively managing insurance, discounts, and prior authorization processes through a deep understanding of U.S. healthcare processes.
- Accomplished developing an optimized user interface that reduced the operations team's task completion time from one minute to an average of nine seconds by refactoring a challenging legacy codebase, enhancing usability and efficiency in the application workflow.

### Leapfrog Technology, Nepal — Associate Software Engineer

JAN 2022 - DEC 2022

- Accomplished developing and enhancing Project Builder, a Jira-like software for drug discovery projects, as measured by a 30% increase in team productivity by leveraging JavaScript to implement flexible workflows, customizable templates, and powerful reporting features that streamlined processes and improved collaboration among scientists.
- Accomplished developing and optimizing the Pipeline project for drug discovery management, resulting in a 25% reduction in workflow processing time by utilizing JavaScript for front-end custom web components and Java, Micronaut, and PostgreSQL for back-end development in the Assay Management and Protein Production modules, serving as a full-stack developer to enhance overall project efficiency.

### Leapfrog Technology, Nepal — Software Engineer Intern

OCT 2021 - DEC 2021

- Accomplished developing complex UI designs using pure HTML

## SKILLS

Programming languages:

JavaScript, Go, Python, Java,  
C++, Rust

Full Stack Development

System Design

Docker

Github

## ACHIEVEMENTS

Completed all challenges on  
HackerRank of Python, C++,  
Java, and SQL sections  
demonstrating proficiency in  
multiple programming  
languages.

## LANGUAGES

English, Hindi, Nepali

and CSS during an internship, while also creating multiple browser games, showcasing creativity and technical skills.

## EDUCATION

### **Keele University (The British College), Nepal — *MSc in Advanced Computer Science***

Jan 2024 - DEC 2024

Acquired advanced knowledge in artificial intelligence, machine learning, and ethical AI practices, while developing technical skills in programming languages such as Python and R, and tools like TensorFlow for real-world applications.

### **Kathmandu University, Nepal — *BSc in Computer Science***

OCT 2017 - JUNE 2022

Gained a strong foundation in computer science core concepts, including data structures, algorithms, programming languages, operating systems, databases, and computer architecture, providing a solid understanding of the fundamentals required for software development and problem-solving.

## PROJECTS

### **Swift Cache — *Custom In-memory cache library***

Developed a cache system that allows the users to configure different read and write policies and also eviction strategies. The library can be used with any Java Project with all databases.

### **Music Generator — *Transformer model***

Designed and trained a Transformer model using pytorch that outputs sequence of notes and their velocity. By converting them to waves and frequencies, we can create music similar to 90s video games background music like Mario.