

# Sushrit Kafle

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## EDUCATION

**Southern Illinois University Edwardsville**  
*Master of Science in Computer Science*

*Edwardsville, Illinois*  
**Expected May 2025**

**Nepal Engineering College, Pokhara University**  
*Bachelor of Civil Engineering*

*Bhaktapur, Nepal*  
**February 2023**

**Award and Scholarship:** Programming Award (11/2022) | Founder's Scholarship (2017-2022)  
**GPA: 3.69/4.0**

## RELEVANT COURSEWORK

Intensive Computer Science Fundamentals (Data Structures and Advanced Algorithms)	Object Oriented Programming in C++
Machine Learning	Probability and Statistics
Computer Architecture	Programming in C

## COURSES AND CERTIFICATIONS

<b><a href="#">Meta Back-End Developer Specialization</a>, Coursera</b>	<b>January 2024</b>
– Introduction to Back-End Development   Programming in Python   Version Control   Introduction to Databases for Back-End Development   Django Web Framework   APIs   The Full Stack   Back-End Developer Capstone   Coding Interview Preparation	
<b><a href="#">The Complete 2023 Web Development Bootcamp</a>, Udemy</b>	<b>November 2022</b>
<b><a href="#">Foundations: Data, Data, Everywhere</a>, Coursera</b>	<b>September 2021</b>

## PROFESSIONAL EXPERIENCE

**Silicon Soft and I.T. Consultant Pvt. Ltd.**  
*Software Engineering Intern*

**April 2023 - August 2023**  
*Kathmandu, Nepal*

- Developed Web API with .NET Core Identity, JWT Tokens, Generic Interface and Repository pattern leading to a 30% reduction in redundant code.
- Led the testing efforts for Unit Testing for a Government Gazette WebApp, achieving a 95% test coverage ensuring project robustness, reliability, and overall quality through rigorous testing.
- Planned and identified key services and API endpoints for a dynamic SaaS ERP website, tailoring features to specific client needs, optimizing resource utilization, and contributing to a 15% increase in client satisfaction.

## PROJECTS

**LittleLemonAPI** | [GitHub](#) *Python, Django REST Framework, Djoser*

- Django REST Framework-based backend solution with user roles, menu, cart, and order functionalities, leveraging Djoser for authentication, implementing robust error handling, user group management, and advanced features like throttling, filtering, pagination, and sorting for an enhanced user experience.

**Tracking the Spread of the Invasive Spotted Lanternfly** | [GitHub](#) , *Pandas, NumPy, Tableau, GB Classifier, Random Forest*

- Analyzed and enriched the publicly available Lyde dataset by adding new data points, incorporating temperature data, and utilizing data wrangling techniques to enhance predictive modeling for the spread of the spotted lanternfly.

**SanoKaam - A Full Stack Job Portal WebApp** | [GitHub](#) *HTML, CSS, JavaScript, C#, ASP .Net Core, SQL Server*

- Developed a feature-rich ASP .NET Core 6 MVC app for employers to post jobs and manage dashboards, while enabling employees to create profiles, apply for jobs, and track applications.

**Let's Think Parallel** | [GitHub](#) *C++, OpenMP, CUDA Programming, Thrust*

- Exploring CPU and GPU parallel sorting algorithms, enhancing understanding of computer architecture and concurrent processing.

## TECHNICAL SKILLS

**Languages:** C++, C#, Python, SQL, HTML5, CSS, JavaScript

**Frameworks:** Django Rest Framework, Django Framework, ASP.Net Core, Entity Framework Core

**Tools:** Git, GitHub, Visual Studio, VS Code, Jupyter Notebook, RStudio, Postman, Insomnia, AWS

**Data Analysis:** NumPy, Pandas, Seaborn, Matplotlib, Scikit-Learn, Exploratory Data Analysis

**Machine Learning/ Artificial Intelligence:** Linear Regression, Logistic Regression, Decision Tree, K-Nearest Neighbor (KNN), Random Forest, Support Vector Machine, Naïve Bayes, CNN, RNN, GANs