

Aakash Dhakal

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PERSONAL PROFILE

Dedicated BSc. CSIT student at National College of Computer Studies (NCCS) with skills in web development, software programming, and database management. I have experience working with a variety of technologies and enjoy solving complex problems. I am always eager to explore new tools and innovative solutions, creating projects that make a positive impact. With a strong commitment to learning and adaptability, I strive to grow both personally and professionally while delivering valuable results through technology and creative approaches.

PROJECTS

Seenema – An Online Video Streaming Platform

[GitHub](#)

- Developed a streaming platform using
- Implemented BOLA algorithm for adaptive streaming and used FFMPEG for segmentation of videos to multiple resolution

HaatBazar – An Online Grocery Shopping Platform

[GitHub](#)

- Developed an ecommerce site using full stack NextJS and MongoDB
- Integrated features like payment gateways like eSewa and Khalti with admin side dashboard

Sangeet - A music streaming application

[GitHub](#)

- Developed a music streaming and sharing application using web technologies like HTML/CSS/JavaScript and core PHP and MySQL as database
- Integrated features such as streaming and uploading music, lyrics display and playlists

Fruits Classification

[GitHub](#)

- Developed a simple fruits classification using Convolution Neural Networks (CNN) to classify different kinds of fruits using images
- Created a simple flask web page to make user friendly implementation of the model

Skypass

[GitHub](#)

- Developed a simple airlines management system using JAVA with MySQL as a database that enables users to reserve seats and manage the planes
- Integrated features such as booking of flight, cancellation of flights, adding and editing flights and deleting flights

Solving Shadows

[GitHub](#)

- Developed a choice-based game using C programming language implementing different DSA concepts

Home Server

- Modified old laptop into home server running Ubuntu that host different applications such as Jellyfin, N8N automation, Adguard DNS, Coolify, Docker Containers with addition to hosting my projects

EDUCATION

2022 – Present Bachelor of Science in Computer Science and Information Technology (BSc. CSIT)
National College of Computer Studies (NCCS) affiliated to Tribhuvan University

2019 – 2021 High School at [Xavier International College](#) 3.64 / 4.0 CGPA

SKILLS

Programming Languages:

- PHP: Designed and implemented secure REST APIs to enable seamless integration with web applications.
- Python: Created data visualization tools with interactive dashboards to support better decision-making processes.
- JavaScript: Developed dynamic user interfaces and facilitated front-end and back-end communication using REST APIs
- REACT/NextJS: Built responsive and high-performance web applications using React and Next.js, implementing server-side rendering, API routes, and dynamic routing for seamless user experiences.
- C/C++: Utilized foundational programming principles in college projects, emphasizing performance and efficiency.
- JAVA: Applied programming concepts on college projects, focusing on object-oriented design.
- C# (ASP.NET): Built web applications using ASP.NET, incorporating secure and scalable features for efficient performance.

Databases:

- MySQL: Learned about Relational Database Model using MySQL and implemented in different projects
- NoSQL: Gained hands-on experience with sharding, distributed storage, data retrieval, and document based storage through college projects.

Tools:

- Git & GitHub: Used as code storage and tracking changes in the code
- Postman: Used extensively for API testing and debugging during development cycles.
- Figma: Used to create designs and prototypes for different college projects

Additional Familiarity:

TailwindCSS, MongoDB, Laravel, Apache, C#, Docker, VMs, Linux, NumPy, TensorFlow, Scikit-learn, Image Processing, Functional Programming, UI/UX designing, ASP.NET, XML, Artificial Intelligence, Operating Systems

Non-Technical Skills

Problem-Solving, Critical thinking, Teamwork, Time management, Adaptability, Creativity, Troubleshooting, working well under pressure, Technical Documentation, Continuous Learning

REFERENCES

Available upon request