

Sanyukta Lamsal

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EDUCATION

University of North Carolina at Chapel Hill

Chapel Hill, NC

B.A. Computer Science, Minor in Data Science | GPA: 3.6

Aug 2022 – May 2025

Relevant Coursework: Mobile Computing (Android), Web Programming, Databases, Data Structures, Object-Oriented Programming, C Programming

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, HTML, Swift, SwiftUI, C#, TypeScript, UIKit, Objective-C

Frameworks/Tools: Git, Docker, Linux, Angular, Next.js, React, FastAPI, PostgreSQL, SQLAlchemy, PyTorch, Kubernetes, Puppet, Figma, Reality Capture

EXPERIENCE

Fast Enterprises (SaaS for Government Solutions)

Concord, NH

Implementation Consultant

Aug 2025 – Present

- Design, develop, and maintain scalable, high-performance enterprise SaaS applications for state government agencies, using C# and SQL as primary development languages.
- Collaborate cross-functionally with product managers, QA engineers, and client stakeholders to gather requirements, architect solutions, and deliver features that align with business and compliance needs.
- Convert and optimize complex SQL Server Management Studio (SSMS) queries into PostgreSQL, ensuring compatibility, performance, and maintainability across database systems.

App Team Carolina

Chapel Hill, NC

Client Team iOS Developer

Sept 2022 – May 2025

- Built Luminary, an iOS mapping app delivering real-time accessible routes via Swift, MapKit, and CoreLocation; implemented multiple SwiftUI interfaces for responsive, high-performance design.
- Received Best App award for Swipecy, a photo manager, and collaborated in Agile sprints on UI/UX and feature development for client apps.

UNC School of Information and Library Sciences

Chapel Hill, NC

ITS Assistant

May 2024 – July 2024

- Engineered a searchable repository indexing 150+ course syllabi using Python and Canvas API.
- Converted legacy Python scripts to maintainable Puppet tasks, ensuring system compatibility and stability.
- Operated within Agile/Scrum to prioritize feature delivery and client requirements.

Swayambhu Stories

Chapel Hill, NC

Artificial Intelligence Intern

May 2024 – Dec 2024

- Applied PyTorch and TensorFlow to build 3D Gaussian Splatting models from drone and lidar data, integrating Reality Capture outputs into a multi-source 3D model of Swayambhunath Stupa.
- Collaborated with interdisciplinary teams in Nepal to ensure cultural and technical accuracy.

PROJECTS

Akari | Java Puzzle Game with Custom GUI

Jan 2024 – Mar 2024

- Developed a desktop puzzle game in Java based on the Akari logic puzzle, applying object-oriented programming principles.
- Built custom GUI components using Swing, implementing game logic, user interaction handling, and dynamic board rendering for varying difficulty levels.
- Structured the codebase with reusable classes, design patterns, and event-driven programming to support scalability and maintainability.

Computer Science Experience Lab (CSXL) | News Feed Platform

Mar 2024 – May 2024

- Engineered backend microservices in FastAPI/PostgreSQL and deployed via Docker/Kubernetes.
- Built responsive Angular frontend with Python and TypeScript and designed UI prototypes in Figma.
- Collaborated with 3 developers in Agile sprints to serve 350+ university users.