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: 3.52*** | *Dean's List (All Semesters)* — *Aug. 2022 – May 2025*
Relevant Coursework: Modern Web Programming, Files and Databases, Mobile Computing Systems, Data Structures & Analysis, Foundations of Object-Oriented Programming, C Programming in Linux

UNIVERSITY OF NORTH CAROLINA at Charlotte — Charlotte, NC
B.S. Computer Science (College Transfer) | ***GPA: 4.0*** | *Chancellor's List (All Semesters)* — *Aug. 2021 – May 2022*
Relevant Coursework: Introduction to Artificial Intelligence, Introduction to Computer Science I & II

Technical Skills

Languages: Java, Swift, SwiftUI, Python, SQL, HTML, CSS, JavaScript, TypeScript
Tools/Frameworks: Git, Command Line, Docker, Linux, Angular, Next.js, React, Kubernetes, PyTorch, Figma, PostgreSQL, FastAPI, SQLAlchemy, Reality Capture

Experience

APP TEAM CAROLINA — Chapel Hill, NC
Apprentice — *Sept 2022 – Present*
- Chosen as one of 22 from 178 applicants for a role in developing iOS applications
- Implemented six user interfaces for iOS applications using Swift and SwiftUI, enhancing user experience
- Developed scalable backend services for app functionality, integrating HTTP requests to manage data transactions

SWAYAMBHU STORIES — Chapel Hill, NC
Artificial Intelligence Intern — *May 2024 – Present*
- Worked with Reality Capture by Epic Games to integrate drone footage, photogrammetry, and laser scans into a 3D model of the Swayambhunath Stupa and collaborated with a multidisciplinary team in Nepal
- Collaborating with Praneeth Chakravarthula to improve the rendering by employing Gaussian Splatting techniques using open-source repositories built with PyTorch and TensorFlow to mitigate visual anomalies in the model
- Utilizing Blender, Reality Capture, and Unity to optimize high-detail 3D models by decimating triangles, reducing file size for compatibility with VR headsets (e.g., Meta Quest)

UNC SCHOOL OF INFORMATION AND LIBRARY SCIENCES — Chapel Hill, NC
SILS Assistant — *May 2024 – July 2024*
- Created a course syllabus repository for UNC of 150+ classes via the Canvas API and a Python script
- Converted multiple Python scripts to Puppet tasks for better integration with UNC's preexisting system
- Collaborated within an Agile/Scrum workflow for organization, development and feedback on deliverables.

Projects

SANYU.WORLD | *Personal Website* — Oct 2024 – Present
- Developed and deployed a personal portfolio website, showcasing technical projects and professional skills using React, Next.js, and Tailwind CSS on the Vercel platform
- Architected the site structure using JSX, achieving a well-organized content presentation that improved navigational efficiency and user experience
- Optimized content delivery and performance using Cloudflare, ensuring fast and reliable access to website resources

COMPUTER SCIENCE EXPERIENCE LAB NEWS FEED | *CSXL Website* — Mar 2024 - May 2024
- Led architectural design and development of a CSXL site news feature using Docker and Kubernetes, enhancing engagement for over 350 students and faculty with a scalable microservices architecture
- Crafted sophisticated user interfaces with Figma and developed a robust end-to-end stack (Python, Angular, TypeScript, PostgreSQL, SQLAlchemy), significantly improving site usability and performance
- Collaborated with a team of three developers in an agile setting using GitHub; effectively integrated diverse technologies to meet all project deadlines efficiently

CINEMATES | *Social Media iOS Application* — Oct 2023 - Dec 2023
- Originated and executed a social media application focused on movie enthusiasts, utilizing Swift and the Movie Database (TMDB) API for real-time data integration
- Implemented JSON parsing techniques to manage data flow from TMDB, enhancing the app's responsiveness
- Adopted the MVVM architectural framework to refine the codebase for maintainability and future features