ANUP SEDHAIN

3700 SW 27th St, Gainesville 32608 • (352) 664-0351
npsedhain@gmail.com • https://www.codingfreshman.com/
https://www.linkedin.com/in/npsedhain/ • https://github.com/npsedhain

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SKILLS

C++, C#, Rust, Python, Node JS, Typescript, HTML, CSS, Next JS, React JS, CUDA, Pony, MongoDB, SQL, Git, Docker, Vercel, AWS, GCP, Firebase, Socket, WebRTC, Real-time systems, Web Assembly, Algorithms and Data Structures

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Five years of experience in full-stack software development, currently pursuing an MSCS, specializing in systems, concentrating in parallel architecture. Passionate in reducing energy consumption by making distributed systems more efficient.

EDUCATION

The University of Florida, Master of Science in Computer Science   August 2024 - **May 2026**
- Specializing in Computer Systems
  - Enrolled in **Distributed Systems** and **Computer Architecture** classes

Kathmandu University, Bachelor of Computer Engineering - **3.63 CGPA**   September 2015 - July 2019
- Honors: Dean's List
- **University-level Hult Prize winner** and represented Nepal in the regional finals in Japan.

EMPLOYMENT

Software Engineer, Airvet Inc.   May 2021 - July 2024
- Led the development of a web application to handle all the incoming chat requests from the pet parents to in-house veterinary technicians. Scaled the application from **handling a couple of requests to over 100 per hour.**
- Worked with data streams and implemented real-time notifications, reducing **response time to less than a minute.**
- Transferred blog content from WordPress to Next JS, solving underlying security issues and **improving load time by almost ten times.**
- **Saved at least 5 hours of dev ops work** monthly by building the company's front-facing website and automating the deployment process using Firebase, GitHub Actions, and Vercel.
- **Implemented A/B testing** to enable the leadership team to make data-driven decisions.
- Reduced global data states and refactored video call logic, **ensuring 100% reliability.**
- **Led multiple feature initiatives in the admin portal** to resolve CX issues, working closely with our support team.

Software Engineering Consultant, Polydelic AS.   March 2021 - March 2022
- **Architected MVPs from scratch** for multiple European startups (Trivsel, Rubato, Awake) to help secure seed funding.
- Implemented RBAC, subscriptions, and contract management for an artist booking platform.
- Built a **real-time webinar hosting platform** using MUX, Peer JS, Socket IO, and Google APIs for video transcoding.
- Developed a **token-based reward system** with Solana Web 3 API.
- Used **DimensionFour to analyze and parse data from baby monitoring sensors** and gave informed decisions to parents on a mobile application.

Software Engineer, Leapfrog Technology Inc.   July 2019 - April 2021
- Led a team of five to build a web app that automated the preparation of product requirement documents using Google Docs APIs and implemented real-time web notifications.

LANGUAGES
- Native: Nepali   Advanced: English and Hindi