

# ANUP SEDHAIN

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## SKILLS

Javascript, Typescript, C++, C#, Rust, Python, Node JS, HTML, CSS, Next JS, React JS, CUDA, Pony, NoSQL, 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.

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## 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.
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## 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 web streams and implemented real-time notifications, reducing **response time to less than a minute**.
- Used WordPress as a headless CMS to solve underlying security issues and **improved 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** using Firebase remote config to enable the leadership team to make data-driven decisions.
- Reduced web video call infrastructure, reducing global states and **ensuring 100% reliability**.
- **Led multiple feature initiatives in the admin portal** to resolve CX issues.

**Software Engineering Consultant**, Polydelic AS. February 2021 - December 2021

- **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 Suite APIs and implemented real-time web notifications.
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## LANGUAGES

- Native: Nepali                      Advanced: English