ANUP SEDHAIN

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SKILLS

Languages: TypeScript, Javascript, NodeJs, C, C++, C#, Rust, Python, Golang, Pony
Databases: NoSQL (MongoDB), SQL (MySQL, PostgreSQL), GraphQL
Web Technologies: WebAssembly, WebGL, WebGPU, Web Workers, WebRTC
Cloud Technologies: Docker, Kubernetes, PubSub, Redis, Kafka, AWS, GCP, Firebase, Vercel, MPI

EDUCATION

The University of Florida, MSCS - **4.0 CGPA**   Expected Graduation - **December 2025**
- Enrolled in **Data Engineering**, **Distributed Systems,** and **Parallel Architecture** classes

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

RESEARCH INVOLVEMENT

Adaptive Learning and Optimization Lab

Individual Study under Prof. Dr. My T Thai
- Predicting users' tipping point in the context of social norm emergence using **TGNNs** and developing an **interactive visualization system** to maintain information integrity in online social networks.

EXPERIENCE

Software Engineer, Airvet Inc. (Los Angeles)   May 2021 - July 2024
(NextJs, Vercel, Firebase, Golang, WordPress, Tailwind, Web Streams, EventSource, SQL, AWS)
- **Architected real-time chat/video application** enabling in-house vet techs to handle more than 10 cases simultaneously using event source polyfill for server-side streams for video calling.
- **Refactored video call feature** using React context, eliminating Redux boilerplate, increasing maintainability, and **reducing status update latency by 200%**.
- **Implemented CI/CD** pipeline using Vercel, Firebase, and GitHub Actions, **saving more than 4 hours per week of DevOps work** over five web applications.
- **Implemented data analytics workflow**, and A/B testing enabling product managers to make informed decisions. Implemented logging using LogRocket for production-level debugging.

Software Engineer, Polydelic AS. (Oslo)   February 2021 - December 2021
(ReactJs, NextJs, Angular, NodeJs, Express, NoSQL, MongoDB, GCP, WebRTC, Docker, Kafka, GCP)
- Architected scalable MVPs for startups (Trivsel, Rubato, Awake), helping them secure seed funding.
- **Built a real-time webinar platform** using MUX, PeerJS, and Google APIs for video transcoding, enabling interactive, real-time engagement.
- **Developed a token-based reward system** leveraging Solana Web 3 API for decentralized user incentives.
- **Designed Rest APIs for an IOT app** using DimensionFour for parents to monitor babies in real time.

Software Engineer, Leapfrog Technology Inc. (Kathmandu)   July 2019 - April 2021
(LitElement, Web Components, PWAs, Micronaut, EC2, S3)
- **Led a team to create a web app automating PRD preparation** with Google Suite APIs, significantly improving turnaround time for requirements documentation.
- **Introduced real-time web notifications**, enhancing user engagement and immediacy of interactions.

PROJECTS

Actor-based Reddit Clone, **RISC V Simulator**, **Gossip Protocol Simulation**, **React Clone**, **Distributed Hash Table**