

# ANUP SEDHAIN

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## SKILLS

**Languages:** TypeScript, NodeJs, C++, Rust, Python, Go, C#, Pony

**Databases:** NoSQL (MongoDB), SQL (MySQL, PostgreSQL)

**Web Technologies:** WebAssembly, WebGL, WebGPU, Web Workers, WebRTC

**Cloud Technologies:** Firebase, Docker, AWS (S3, EC2, CodePipeline, Route 53, RDS, IAM), GCP, Vercel

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## CURRENT INVOLVEMENT

### Adaptive Learning and Optimization Lab

*Individual Study under Prof. Dr. My T Thai*

- Building AI Model for tipping point prediction related to information integrity
  - Implementing HCI principles to select relevant information to display in the user's dashboard
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## EDUCATION

**The University of Florida**, Master of Science in Computer Science Expected Graduation - **May 2026**

- Specializing in Computer Systems
- 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.
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## 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 web-based chat/video application for in-house vet techs to handle cases from pet parents using event source polyfill for server-side streams and web streams for video calling.
- Refactored video call feature using React context, eliminating Redux boilerplate, increasing maintainability, and reducing status update latency by 2x.
- Implemented CI/CD pipeline using Vercel, Firebase, and GitHub Actions, saving almost 4 hours per week of DevOps work over five web applications.
- Implemented data analytics workflow using Amplitude, enabling product managers to make informed decisions. Implemented logging using LogRocket for production-level debugging.
- Led A/B testing over multiple applications to make choices on what increased user engagement.

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

*(ReactJs, NextJs, NodeJs, Express, NoSQL, MongoDB, GCP, WebRTC, Docker, 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.
- Led the development of an IOT app using DimensionFour for parents to monitor their babies in real time.

**Software Engineer**, Leapfrog Technology Inc. (Kathmandu)

July 2019 - April 2021

*(LitElement, Web Components, PWAs, Micronaut, AWS)*

- Led a team to create a web app automating product document preparation with Google Suite APIs, significantly improving turnaround time for requirements documentation.
  - Introduced real-time web notifications, enhancing user engagement and immediacy of interactions.
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## PROJECTS

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