

ANUP SEDHAIN

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SKILLS

Languages: TypeScript, Javascript, NodeJs, C++, Rust, Python, Golang, C#, Pony

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

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

Cloud Technologies: Docker, Kubernetes, PubSub, Redis, Kafka, AWS, GCP, Firebase, Vercel

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.
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EDUCATION

The University of Florida, MSCS - 4.0 CGPA

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 chat/video application enabling in-house vet techs to handle more than ten cases simultaneously 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, Angular, 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.
- Designed Rest APIs for 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