ANUP SEDHAIN

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SKILLS

Languages: JavaScript, TypeScript, C++, Rust, Python, C#, HTML, CSS, HTML, CUDA, Pony
Frameworks & Libraries: Next.js, React.js, Node.js, Socket.IO, WebRTC, Web Workers
Technologies: WebAssembly, WebGPU, Web Workers, NoSQL, SQL, Firebase, Docker, AWS, GCP
Core Competencies: Parallel Computing, Distributed Systems, Real-time Data Processing, Algorithm
  Optimization, Concurrency, Energy Efficiency in Systems

Five years of experience in full-stack 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. (Los Angeles)   May 2021 - July 2024
- Developed and scaled a web application handling over 100 pet-related chat requests per hour, optimizing response times with real-time notifications and streamlined web streams.
- Enhanced security and load times by integrating WordPress as a headless CMS, improving site performance by up to 10x.
- Saved 5+ hours monthly in DevOps by automating deployment using Firebase, GitHub Actions, and Vercel.
- Led A/B testing with Firebase remote config, supporting data-driven decisions in user experience optimization.
- Implemented improvements in web video infrastructure, reducing global states and ensuring seamless CX.

Software Engineering Consultant, Polydelic AS. (Oslo)   February 2021 - December 2021
- Architected MVPs for European startups (Trivsel, Rubato, Awake), helping secure initial funding through efficient, scalable designs.
- 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 a data-parsing application with DimensionFour, allowing parents to make informed decisions based on real-time baby monitoring data.

Software Engineer, Leapfrog Technology Inc.   July 2019 - April 2021
- 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.

LANGUAGES

- Native: Nepali   Advanced: English