Darshan Acharya

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Education

University of California Davis — Davis, CA
Masters in Computer Science 4.00/4.00 — *Sep. 2023 – Expected: 2025*

Institute of Engineering, Tribhuvan University — Kathmandu, Nepal
Bachelor in Computer Engineering 3.85/4.00 — *Nov. 2017 – April 2022*

Skills

Languages: Javascript, Python, C/C++, Java, SQL, Rust
Frameworks: React, Node Js, Flask, Express, FastAPI
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, Chrome Dev Tools

Experience

Software Engineer — April. 2022 – March. 2023
Leapfrog Technology — *Kathmandu, Nepal*

- Designed and implemented scalable system APIs and background workers responsible for managing backend structure using Nodejs and Typescript.
- Ensured software quality through CI/CD pipelines, automated testing, and a keen eye for code quality.
- Worked on component management, optimization, debugging, and testing of applications using React Js, Jest, and Chrome dev tools.

Software Engineer Intern — Jan 2022 – March 2022
Leapfrog Technology — *Kathmandu, Nepal*

- Learned and implemented API development, including RESTFUL APIs, microservices, and graphQL. Trained in handling security and data protection, authentication, and authorization between multiple systems, servers, and environments.
- Learned to write automated test suites for correctness and scalability.
- Designed and implemented various frontend applications and designs using Javascript, NodeJs, Firebase, and Docker with the the help of senior developers and mentors assigned to the team.

Undergraduate Teaching Assistant — June 2018 – Aug. 2019
Institute of Engineering — *Pokhara, Nepal*

- Conducted detailed error analysis and developed models by breaking down the error classes and prepared a report on the limitations of the model and improvement strategies on the road traffic data for the Government of Nepal.
- Used semi-supervised algorithms to utilize a large number of unannotated data for model training.

Projects

Logic Simulator Code Demo

- Developed an application that helps users build different circuit diagrams, such as Johnson counter, Synchronous binary up counter, half and full adder, etc., and visualize them.
- Enabled users to simulate and test their circuit designs before physical implementation, reducing prototyping errors by an estimated 40%

2D Sonic Style Fighting Game Code Demo

- Designed and developed a sonic-style modified retro game using game physics enhancing the gameplay as a part of an internship project.

Draw Using Fourier Transform Code Demo

- Simplified the complex concept of Fourier transforms into an interactive application, that helps construct any diagram making it more accessible for educational purposes.