Darshan Acharya

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Education

University of California Davis — Davis, CA
Masters in Computer Science — *Sep. 2023 – Present*

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

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 immplemented 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 design using CSS2, CSS3, Javascript, Nodejs, Firebase,Docker with the help of senior developers and mentors asssigned 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 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
- Worked under the supervision of Assistant Prof. Hari Prasad Baral to organize and implement various daily lesson plans and coding sessions for first-year students.

Projects

Logic Simulator Javascript, Node JS, Firebase
Code Demo Site

- This application helps you to build different circuit diagrams such as Johnson counter, half and full adder, etc., and visualize them.

Chinese to Nepali translator Python, CMU Sphinx toolkit,Transformer
Code

- An application that can translate Chinese to Nepali speech offline. The Bible corpus dataset is used for training on the transformer model. Tacotron 2 model is used for making text to to-speech system

2D sonic style Fighting game Javascript, NodeJS, Express
Code Demo Site

- Designed and developed a sonic-style modified retro game as a part of an internship project

Draw using Fourier transform Javascript, NodeJS, Express
Code Demo Site

- This application helps to visualize how you can draw any figure using the application of Fourier transform

Technical Skills

Languages: Javascript, Python, C/C++, SQL (Postgres),HTML/CSS
Frameworks: React, Node.js, Flask,Express, FastAPI
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, Chrome Dev Tools