PRAKASH DAHAL

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Summary

- **4+ Years** of Experience as a Software Engineer.
- **2 Years** as a Full Stack *Developer in **Node, React, Angular***.
- **2+ Years** as an *Automation Engineer in testing*
- Major version upgrade of **gRPC** in **nodejs** and tested using **BloomRPC.**
- Worked on **React and Nodejs** with **Microservices architecture** on **gRPC**.
- Implemented **Redux** in **Angular**.
- Implemented Automation Testing with **Cypress** implementing *TDD* and *BDD* approaches.
- Trained QA in automation team and API Testings.
- Reduced Manual Test by nearly 80% using automation script in a project.
- Experience of Project Management in a small security testing project.

Experience and Projects

***Software Engineer* at Code Himalaya**:
June, 2023 - Present
- Monorepo setup for API and UI testing in **Cypress**
- API Automation using **REST Assured**

***Software Engineer* at Cotiviti**:
*Jan, 2023 - June, 2023 (**5 months**)*
- Examined the QA processes in backend data testing.
- Explored on the Health sector of the U.S.A.
- Explored **Playwright** automation tool.

***Software Engineer* at Innovate tech:**
*July, 2020 - Nov, 2022 (**2 yr 4 mos**)*
- Involved in Full Stack development using **React** with Material UI design (MUI) and **Nodejs**
- Explored Microservice architecture with **gRPC** and **node**
- Led an automation team in **Cypress** implementing both *TDD* and *BDD*
- Guided QA in Automation and API testing with *Postman* and *Swagger*
- Coordinated with Security Company, Vairav, and Developers of Innovate Tech to resolve the security issues as a Scrum Master
- Enhanced the major version change in gRPC **microservice** architecture and examined using BloomRPC

***Supervisor* at Herald College Kathmandu:**
*Sept, 2020 - Sept, 2022 (**2 yr**) part-time*
- Supervised students to accomplish their individual Final Year Projects (FYP).
- Guided to improve the quality of the report and presentations**.**

***Software Engineer* at Bajra Technologies:**
*July, 2019 - June 2020 (**1 yr**)*
- Enhanced knowledge of Front End development in **Angular** along with the **Redux** concept.

- Researched on Rails and Background Jobs.
- Studied some unit testing in Jasmine.

Projects

Emotion Detection from Voice (College Project):
Individual Final Year Project
- Web Based application built in **Django**
- *MFCC* and *Chroma* features are extracted from mp4 file using Librosa library
- The features are extracted and stored in excel writing the python scripts
- The data are trained on K-Nearest Neighbor (**KNN**) and Artificial Neural Network (**ANN**) using **tensorflow**
- Classified into four classes: *sad, happy, angry* and *fearful*.
- Integrated KNN model in Django due to better accuracy.
- Report Link: [Full Report](#)

Hotel Management System *(Side Project)*:
Karnali Home Pvt Ltd.
- Web based application for hotel management built in **Angular** and **Laravel**.
- It includes booking, reservation, food ordering, billing and user management.
- Hosted the application in **Virtual Private Server** (VPS).
- It has a Website for end users and Frotend and Backend System for system users.

Saver App *(Hackathon Project)*: Github Repo: [Code](#)
- Android Mobile Application.
- Intention to prevent Rape cases from Android.
- Implemented in a group of 5 people.
- Google voice navigation was used to catch the user "Help" voice command.
- SMS is sent in mobile with Geo-location(Longitude and Latitude).

Learning Projects *(Free Time Projects)*:
- React: MUI Word Game ([Live Demo](#))
- React: Color Change Practice ([Live Demo](#))
- Node: Cli Programmer Game ([code](#)) and published in npm
- Node: Cli Game ([code](#)) and published in npm
- Front-end: Bootstrap Practice ([code](#))

Education Qualification

- **BSc(Hons) Computer Science** From **Herald College Kathmandu (University of Wolverhampton)** Graduated in **2019**

Certifications/Achievements

- **Full Educational Scholarship**
  Scholarship for Bachelors Studies in Herald College Kathmandu.
- **Summer Camp Scholarship, UK**
  Representative of Herald College Kathmandu in University of Wolverhampton.
- **Certified in AI Expo Nepal, 2019**
  Showcase AI project: *Emotion Detection from Voice*.