Prakash Dahal

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Summary

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- **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.

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Experience

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Software Engineer at Cotiviti: *Jan 2023 - June 2023 (5 months)*

- Examined the QA processes in backend data testing.
- Explored Playwright automation tool.
- Explored on the Health sector of the U.S.A.

Software Engineer at Innovate tech: *Jul, 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 *Test Driven Development* (TDD) and *Behavior Driven Development* (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.

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Projects

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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 two systems: **admin portal** and **website**. Some features are: *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 appliation System for system users.

Saver App (Hackathon Project):

- 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).
- Github Code: Github

  `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)

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Achievement

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> `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.*

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Education

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