

Prasanna Suman

Software Engineer

gitlab.com/tux4, github.com/tux4, github.com/happyflower4
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Education

B.A. Physics and B.A. Computer Science
Brandeis University, Waltham, MA

May 2013

Work Experience

Senior Software Engineer

Imperfect Foods, Remote

June 2021 – Dec 2022

Misfits Market (Misfits Acquired Imperfect in Sept 2022)

Software Engineer

June 2021 - Dec 2022

- Implemented and maintained customer facing features for the Imperfect web app (TypeScript and React)
- Implemented and maintained the Imperfect mobile app for Android and iOS (react-native hybrid app). I was part of the implementation from early stages and as such helped with making key decisions regarding the app architecture and implementation, setting up testing infrastructure etc.
- Led the Imperfect mobile app project

Senior Software Engineer

Trax Retail, San Francisco

Jan 2018 – Nov 2019

Quri Inc, San Francisco

April 2016 – Jan 2018

(Quri was acquired by Trax in Jan 2018)

Mobile Engineer

June 2018 – Nov 2019

- Implemented new features and maintained Quri's primary Android app (EasyShift) in Kotlin and Java
- Implemented new features and maintained Quri's primary iOS app (EasyShift) in Swift
- Introduced integration test suites in the EasyShift mobile apps

- Explored different architecture patterns applicable to mobile development. Implemented Model-View-Intent (MVI) architecture in parts of the EasyShift iOS app.

Senior Frontend Engineer

April 2016 – Jun 2018

- Developed and maintained single page applications in React, Redux, Relay and GraphQL for various internal tools and customer facing applications
- Led efforts to introduce integration tests in frontend apps that allowed Quri to have continuous delivery
- Setup and managed continuous delivery for frontend projects using Codeship, Docker, Selenium
- Mentored junior frontend engineers
- Interviewed candidates for Javascript, Python, Mobile and QA engineering positions

Software Developer

Q-Sensei Corp., New York / San Francisco

Sept 2013 - March 2016

- Developed single page applications in React, Flux and Redux
- Developed interactive search and analytics frontend in Angular, D3.js and SASS for Q-Sensei Fuse
- Designed and implemented REST backends using Pyramid (Python) and Q-Sensei Fuse
- Developed WordPress plugin (PHP) for user management on the Q-Sensei website.
- Developed search plugins for Atlassian Confluence and Atlassian Jira (Java)
- Setup development environments and continuous integration for frontend tests and deployment (Atlassian Bamboo, Docker, Selenium)

Free and Open-Source Software

Founding Member and Software Developer

Code for Nepal (C4N) Bay Area Chapter

2017 - current

C4N is a 501(c)(3) non-profit composed of volunteers who are working on the challenging problems of digital literacy, open data and digital divide. As a member of this organization I helped conceive, plan and implement the following projects.

- Sangraha.org – Sangraha is an archive of literature from Nepal. Currently under active development at github.com/Code4Nepal/akshara-project/
- Lekhanee Keyboard – Lekhanee is a FOSS Android Soft Keyboard for the languages of Nepal. The beta version is available in the Play Store. Source code is available at gitlab.com/lekhanee/lekhanee-android

Technical Skills (Keywords)

- **Programming Languages:** JavaScript, TypeScript, Python, Kotlin, ClojureScript (Clojure), Swift, Java, C, Scheme
- **Front-end Development:** React, React Native, TypeScript, Redux, apollo-client, Relay, Babel, Webpack, AngularJS, Om, reagent
- **Graphics:** Blender, Godot Game Engine, GIMP, Inkscape
- **Test Engineering:** E2E tests using Selenium and Chromeless, Unit Testing with Jest, Mocha
- **Mobile Development:** Android development using Kotlin, Java and React-Native, iOS development in Swift
- **Back-end Development:** Express (NodeJS), GraphQL, Elasticsearch, Pyramid (Python), Spring (Java)
- **DevOps:** Docker, Vagrant, Continuous Integration (Codeship, Travis, Atlassian Bamboo)
- **Scientific Computing:** Mathematica, Matlab, NumPy, NLTK