Sahara Rai

SOFTWARE ENGINEER

Education

PGCE
Postgraduate Certificate in Education
University of Canterbury
2019-2020

PhD
Exercise Metabolism
University of Birmingham
2012-2017

MSc
BioImaging
University of Sussex
2010-2011

Tech Tools

CSS

Git

HTML

Heroku

Javascript (ES6)

Node.js

PostgreSQL

React.js

TypeScript

Postman

About me

A highly motivated software engineer, seeking to use my problem solving skills developed during my academic and teaching career and apply them working in a tech team.

https://github.com/SaharaRai

sahara-rai.netlify.app

www.linkedin.com/in/sahararai

Software engineering experience

School of code | Nov 2021 - Mar 2022

During my training at the School of Code, I have learnt not just how to code but I have most importantly learnt how to effectively learn programming using any tech tool. I learned the principles of software development and computational thinking, and the importance of user experience when developing software. Pair programming has been the fundamental method of learning during the training, which I found it to be a very efficient method of learning as it helped articulate my thoughts and allowed dynamic sharing of knowledge with my peers.

After learning HTML, CSS and JavaScript, I then progressed to working with libraries and frameworks such as React, Node.js, Express, Next, and working with databases using PostgreSQL.

Further Tools and Methodologies

- Auth0
- Cypress
- Express
- Figma
- Jest Testing
- Next.js
- REST API

- Agile
- Pair Programming
- Trello
- UI Design
- User Research
- UX Design

PhD Publication

https://pubmed.ncbi.nlm.nih.gov/29237310/

https://etheses.bham.ac.uk//id/eprint/7429/

Interests

Have a keen interest in Freecyle whose aim is to reduce, reuse and recycle. Volunteer moderator of a local Freecycle group

Contact

✉ sxrai294@gmail.com

Software engineering experience (continued)

- For my main collaborative project, my team consisting of 6 developers, built an app that allows users to post and/or apply for any odd jobs locally such as gardening and cleaning. Adopting AGILE methodology, we worked asynchronously in sub teams, similar to a real work environment, with daily standups in the morning (to allocate tasks using Kanban board) and retrospectives at the end of the day.

- For this project, I initially worked on the development of RESTful API for creating and listing jobs using Express, and used PostgreSQL to interact with database hosted at Heroku. I then worked on the frontend of the project with TypeScript using Next.js, working on a feature at a time using ticketing system.

Job Experience

Teacher of Science

John Wallis Academy | 2020-2021

- Prepared and delivered lessons to classes of different ages and abilities using use a range of different learning resources and equipment including during remote learning during the pandemic lockdown
- Delivered a range of science practical lessons
- Undertook pastoral duties as a form tutor
- Communicated with parents and carers over pupils' progress