HERSH KATARIA

KATARIAHERSH@GMAIL.COM   HERSHKAT.COM   GITHUB.COM/HERSH-KAT   LINKEDIN.COM/HERSHKATARIA

Education

University of Warwick   **Oct 2016 – Jul 2019**
BEng (Hons) Computer Science - **First Class**

Experience

Software Engineer (Part Time), Freestyle Cuts   **Jul 2020 - Present**
- Developing a mobile app, using **React Native** and **Sails.js**, for a hair and beauty startup with over 500 monthly active users.
- Implementing features that will manage operations and interact with **IoT devices** in a semi-automated hair salon.

National President (Full Time Volunteer), Krishna Consciousness Society   **Aug 2019 - Jul 2020**
- Led a team of 10 to create a network offering spiritual wellbeing and life coaching to over 800 students across 30 universities.
- Used **React, HTML5, CSS3** and **RESTful APIs** to develop a web application. See KCSOC Studio below for more details.
- Created a new brand of nationwide, university wellbeing retreats by developing a fully functioning e-commerce website, which generated a revenue of **£7000** in the first 6 months.
- Used **Python** and **Google Apps Scripts** to automate admin tasks, such as data scraping and spreadsheet management.

Software Engineer (Full Time), CreditSights   **Aug 2018 - Sep 2018**
- Used **Python, Flask** and **Dash** to develop a bespoke data visualisation web app that displayed company revenue information.
- Processed data from spreadsheets using **Pandas** displayed the data on interactive graphs using **Plot.ly**. Proved much faster than creating graphs manually in Excel and saved **10 hours each week**.

Software Engineer (Internship), Health Shared   **Jun 2018 - Jul 2018**
- Collaborated with a team of developers in a healthcare start-up to implement a responsive web app.
- Built a **Java** based data pipeline that requested data using the **NHS API** and updated a **Firebase Realtime Database**. Used **Node.js** to implement cloud functions that published user content to an open-access repository.

Personal Projects

KCSOC Studio - React, Material-UI
- Developed a **React** web app that fully automates graphic design and video editing processes. App allows for any member, regardless of skill, to make professional media content and has **40 weekly users.**
- App significantly increased productivity, with the original designer saving a time of **15 hours per week**.
- Utilised the **lodash** library to poll an **API endpoint** at a given interval to check the progress of a rendering video. Implemented page routing using **React Router** and used components from **Material-UI**.

Personal Website - Gatsby, React, GraphQL
- Used **Gatsby** and **React** to develop a personal website from scratch, to display CV and projects in an accessible way.
- App uses **GraphQL** for data querying and **CSS media queries** to make the UI responsive for mobile devices.

InstaLytics - Vue.js, Express, Instagram Graph API
- Used **Vue.js** to build a **progressive web application** that queries the **Instagram Graph API** and displays business account metrics on an interactive dashboard with graphs.
- App improves on Instagram's built-in analytics, by calculating additional metrics such as engagement rate and reach rate.

IntelliQuote - Vue.js, Google Cloud Vision API, Algolia, Express
- Built an AI graphic design web tool with **Vue.js**, that generates professionally made graphics with quotes.
- **Google Cloud Vision API** returns image labels that are used to query an **Algolia search index** containing positive quotes, and a relevant quote is rendered onto the original image.

Skills

Languages: **Java, JavaScript ES6+, Python, C, HTML5, CSS3, GraphQL, SQL.**

Technologies: **React, React Native, Gatsby, Vue.js, Flask, Dash, Express.js, Node.js.**