Vipul Singh

https://vipul-21.github.io/

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EDUCATION

- **University of Southern California** — GPA - 3.8
  Master of Science in Computer Science; — *January 2019 – December 2020*

- **JSS Academy of Technical Education** — GPA - 3.75
  Bachelors of Technology(Honours) in Information of Technology; — *August 2012 – July 2016*

PROGRAMMING SKILLS

- **Programming/Languages**: : Javascript, Python, Go, HTML5, CSS3, Less
- **Technologies**: ReactJs, AngularJs, Redux, MobX, Redux-saga, NodeJs, GraphQL, ExpressJs, Jasmine, Jest, Protractor,, DraftJs, AWS-(EC2,Lambda,Route53,S3,Cloudwatch, DynamoDB), MongoDB, jquery, ES6

EXPERIENCE

- **Amazon Web Services** — Seattle, United States
  Software Developer Engineer Intern — *May 2020 - Present*

- **Information Sciences Institute (ISI)** — Marina Del Ray, United States
  Student Web developer — *May 2019 - May 2020*
  - **Deriva Webapps**: Built a configurable plot with AngularJS and plotly to visualize the trends by dynamically fetching huge amount of data from NIDDK-funded consortium. Implemented unit test cases with protractor and jasmine for MVC tool.

- **Involvio** — Noida, India
  Senior ReactJs Developer — *June 2018 - December 2018*
  - **Campus kit**: Developed a customizable student engagement platform with comprehensive features for 50 schools, based on ReactJs and MobX. Increased number of daily active users by developing group and calendar events feature.

- **Noticeboard** — Bangalore, India
  Senior Web Developer — *March 2017 - March 2018*
  - **Noticeboard Web App**: Developed frontline communication platform using ReactJs, Redux and Redux-saga.
    * Developed a rich text editor by designing a modified framework having multiple widgets based on DraftJs.
    * Built and deployed cron scripts in GoLang utilizing concurrency power to automate process for sending out bulk notices to thousands of user at same time. Optimized the load time by using SSR to support low bandwidth.

- **ClayPlay - Top 15 ideas of India in 2016 by Economic Times** — New Delhi, India
  Technology Lead — *April 2016 - February 2017*
  - **ClayPlay Web App:**: Created an automated packaging tool to handle multiple aspects of an international holiday.
    * Designed a microservice using ExpressJS, which included a cron job worker architecture syncing up with 15 travel vendors data, and REST APIs exposing the data for use.
    * Supported faster retrieval of data by integrating GraphQL middleware layer between REST APIs and frontend.

PROJECTS

- **Soteria(Python and Javascript)**: Prevents harassment and misconduct cases by observing the surroundings of a person using computer vision and alerting both the person and the nearest police department.
- **Vote on Chain (ReactJs, Solidity and NodeJs)** : Managed team to deploy webapp for casting of votes in elections to increase transparency with blockchain.
- **React Semantic UI (ReactJs and Jest)**: Open source contribution of popup triggering on various events.
- **Validator.js**: Open source contribution of feature for validation of phone numbers from multiple countries.
- **React Skeleton Loading (ReactJs)**: Created node module for skeleton loading for web based application.

ACHIEVEMENTS

- **HackSC 2019**: Second position for proposing solution for Totle incentive problem for accuracy and attack resistant.
- **Viterbi Hackathon 2019**: First prize for proposing solution of trust mechanism on an Etherium blockchain to find malicious accounts responsible for cyber ransomware.