

Vipul Singh

<https://linkedin.com/vipulsingh>

Email : vipulsin@usc.edu

Mobile : +1-213-448-0661

EDUCATION

- **University of Southern California** Los Angeles, CA
Master of Science in Computer Science; January 2019 – December 2020
- **JSS Academy of Technical Education** Noida, India
Bachelors of Technology(Honours) in Information and Technology; August 2012 – July 2016

PROGRAMMING SKILLS

- **Languages:** : Javascript, C, C++, Go, Sql, HTML5, CSS3
- **Technologies:** ReactJs, AngularJs, Redux, MobX, Node Js, GraphQL, AWS, DynamoDB, MangoDB, MySQL, MATLAB, Octave

EXPERIENCE

- **Involvio** Noida, India
Senior ReactJs Developer June 2018 - December 2018
 - **Campus kit:** Led development of campuskit.io for more than 50 schools targeted for student engagement based on React and MobX.
- **Noticeboard** Bangalore, India
Senior Web Developer March 2017 - March 2018
 - **Noticeboard Web App:** Developed and managed website noticeboard.tech in React Js, Redux and Express server based on Node Js; App used by logistics department of Myntra, Bigbasket and Treebo in India.
 - **Notices:** Created and deployed cron scripts in GoLang utilizing concurrency power to automate process for sending out bulk notices to thousands of user at same time.
- **ClayPlay** New Delhi, India
Technology Lead April 2016 - February 2017
 - **ClayPlay Web App:** Led technology team of 5 to build a cross platform application to automated holiday tool.
 - **Architecture:** Designed architecture for back-end and front-end to handle different aspects of an international holiday.
- **Tech Mahindra** New Delhi, India
Software Developer Intern June 2015 - August 2015
 - **Flood Management:** Studied and managed a group project Flood Control Management system; Managed database for project in MYSQL.

PROJECTS

- **Vote on Chain:** Using Blockchain to maintain the casting of votes in elections to increase transparency.
- **Validator.js:** Open source contribution of feature for validation of phone numbers from multiple countries.
- **React Semantic UI:** Contributed a feature of popup based on react which can be triggered based on various events.
- **Noise Reduction in CMOS images (C++, Algorithms and Matlab):** Integrated noise reduction algorithms to improve quality of CMOS images; Research on different types of noise reduction techniques and algorithms.
- **Voice Based Navigation System (Java and Android):** Fetching location based information and implementing Google APIs based on voice; Specifying predefined voice inputs to enable functioning of application.
- **Bubble Zapper(Game):** Created game to burst bubble without touching enemy bubble with Unity3D.
- **Voice Based Email System(C#):** Developed email system to help handicapped access emails via voice commands.

ACHIEVEMENTS

- **HackSC 2019:** Second prize for proposing the solution for Tote incentive problem for accuracy and attack resistant.
- **Viterbi Hackathon 2019:** First prize for proposing the solution for cyber ransomware with the help of blockchain.
- **Catapooolt Changemakers by Economic Times:** Clayplay in one of the Top 15 ideas of India in 2016.

PUBLICATIONS

- **Comparative study of algorithms/ techniques for denoising of gaussian noise:** Vipul Singh, IJARCS / October, 2017