

# Raveen Singh

## Skills

Development Python, JavaScript, Java, React/Redux, Node.js, Express.js, jQuery  
Data MongoDB, MySQL, Firebase  
Tools Docker, Git, Travis CI

## Work Experience

Aug 2018 – **Software Engineering Intern, Bitcoin Bay**

- Oct 2018
  - Developed the signup process using OAuth based authentication with **Passport.js** to onboard new users
  - Implemented an intuitive UI using **React** and used **Socket.IO** for real-time payment communication
  - Optimized workflow by using **Travis CI** to build a development pipeline in order to ensure error-free builds, saving an estimated 3 hours in development time
  - Created an API that followed **RESTful** principles with **Node.js** that communicated the customer's payment information to the front end

Jul 2018 – **Web Developer Intern, BTNX**

- Aug 2018
  - Part of a cross-functional team to create responsive websites according to client specifications
  - Utilized **MySQL** to manage databases and perform data integrity checks
  - Automated data aggregation by writing custom scripts using Mozenda
  - Applied **Agile** development principles to implement new features into an existing C# & .NET codebase

## Other Experience

**Founder, Toronto Youth Network**

- Founded a student led, non-profit organization dedicated to student networking within the technology sector
- Executed monthly goals, achieving a reach of around 1000 students around the GTA
- Successfully ran two ~200 participant, 24 hour, hackathons in July 2017 and December 2017

## Projects

Nov 2018 **uSober, Hackathon, Node.js, React**

- Created a progressive web app that empowers users to make educated inferences as to their cognitive abilities using research based inferences and feature based image classifiers
- Application runs on a custom model using **Google's Cloud Vision API** to identify cognitive impairment built on top of a **React** application
- Won best use of **machine learning** at Electric City Hacks

Sept 2018 **Audite, Hackathon, Node.js**

- Built a navigation tool for people with hearing impairment
- Application built using a Raspberry Pi, Arduino, and 3 microphone's to triangulate and decipher speech in real time; text was also displayed on screen over the source of sound using AR

Dec 2016 **WeatherMaps, Hackathon, Node.js, HTML & CSS**

- Developed an application that shows weather projections for departure and destination locations; the time of departure, and the time of arrival
- Application runs on a **Node.js** backend, querying the **Google Maps API** for map data, and **forecast.io** for weather projections

## Awards

Sept 2018 **Finalist, Hack the North 2018 Hackathon**

Dec 2018 **2nd Place, Alpha Hacks Hackathon**

Feb 2017 **3rd Place, Fraser Hacks Hackathon**

## Education

2019 - 2024 **Honors Bachelor of Computer Science Co-op, University of Waterloo**