

Raveen Singh

Student. Software Engineer.

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Skills

Development Python, JavaScript, Java, C, 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** & used **Socket.IO** for real-time payment communication
- Automated workflow by using Travis CI to build a development pipeline in order to ensure error-free builds
- 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
- Utilized **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 uses 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

Dec 2016 **WeatherMaps, 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**

Built a device that assists the hearing-impaired by using sound triangulation and augmented reality using an **Arduino** combined with microphone sensors and a **Node.js** application

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

Used Google's **Natural Language API** and the **Twitter API** to make a decision to buy or sell a stock based on the current sentiment

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

Built a web application that curated a music playlist based on the weather using the **Dark Sky API** and **Node.js**

Education

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