

# Nick MacIntyre

Full Stack Developer | Software Engineer

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**Objective:** To utilize my technical skills and background in mathematics and earth sciences in order to create quality software in a collaborative and challenging environment

## Projects

### **ELECTRON, IONIC & NODE.JS** — *IOT MUSIC PROJECT*

Designed a network of apps in order to achieve wireless control of a user's home media player. The network consists of a desktop, mobile and browser app and was created to as an introduction into the Internet of Things. [music-ee68e.firebaseio.com](https://music-ee68e.firebaseio.com)

### **SOCKET.IO, POSTGRESQL & KNEX** — *SOCKET CHAT*

Built in a day as part of a hackathon, this chat app integrates socket.io and a PostgreSQL database allowing users to view historic and real-time messages. [hackathon-socket-express.herokuapp.com](https://hackathon-socket-express.herokuapp.com)

### **EXPRESS, IONIC & GOOGLE CHARTS API** — *GRASP*

An educational app that combines real-time computing and data analytics in order to display to lecturers how well their class understands a lecture. [grasp-app.firebaseio.com/](https://grasp-app.firebaseio.com/)

### **ANGULAR, EXPRESS & BOOTSTRAP** — *REDDIT CLONE*

As an introduction into web security, this application utilizes UI-Router and JSON Web Tokens to deter unsigned users from accessing privileged information. [redditclonenick.firebaseio.com](https://redditclonenick.firebaseio.com)

### **JAVASCRIPT, HTML CANVAS & FIREBASE** — *ASTROIDS*

This game was made only with JavaScript, the HTML canvas element, a Firebase database and the goal to not use a gaming engine. [astroidz.firebaseio.com](https://astroidz.firebaseio.com)

## Experience

### **STAFF GEOPHYSICIST** — *OSOP SEISMIC OBSERVATORY, PANAMA*

- Used Raspberry PI computers to help implement a seismic network in Panama
- Learned to use geophysical equipment and software in order to create informational documents for company's webpage
- Monitored off shore earthquake activity vs. wave height data to quantify tsunami risk after seismic events

### **HYDROLOGIC/GEOLOGIC TECHNICIAN** — *BALANCE HYDROLOGICS, INC., CA*

- Assisted in field surveys of local streams in order to determine sediment transportation rates
- Ran computations on field data sets to created sediment vs. discharge models
- Calibrated field instruments to reduce error margins

## Education

### **FULL STACK IMMERSIVE** — *GALVANIZE, INC., CO*

A six month program where I learned how to create Web applications. I focused heavily on JavaScript, Node.js, Express, Angular.js, PostgreSQL, data structures and algorithms.

### **BS GEOLOGY, MINOR APPLIED MATHEMATICS** — *HUMBOLDT STATE UNIVERSITY, CA*

I am proficient with concepts in physics, calculus, geology, chemistry, linear algebra, data collection, GPS, seismology and the scientific method.