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RAFAEL KHAN

SUMMARY

Writing software is without question my greatest passion, hobby, and achievement. I'm a web developer by trade, with over 5 years of professional experience. My interests vary from functional programming, to making audio software, to toying around with Linux and building electronics.

SKILLS

- **Highly proficient in modern Javascript development**
    - **Extensive experience with both frontend and backend Javascript**
    - **3 years of React experience (with redux, react-native, and more!)**
- Experience with building data-intensive Python applications
- Experience with production Clojure/Java, Ruby, and PHP
- Huge UNIX fan, and regular Linux user
    - Devops automation
    - Docker
    - Extensive AWS experience
    - Bash
- Experience with various SQL/NoSQL databases, most notably MySQL, PostreSQL, MongoDB, DynamoDB, and Redis

EXPERIENCE

Ovandi, Toronto — *CTO*

June 2017 - Present

- Technical leader of cannabis consumer electronics startup
- Built prototype hardware
- Wrote firmware with HTTP server and Bluetooth API to device functionality in C++
- Designed and developed react-native application to interface with the device
- Developed technical business strategy
- Assisted design team
- Canvased investors / target demographic regularly, iterated on product with their feedback
- Lead junior developers to deliver features and grow their skillset

Mark43, New York/Toronto — *Software Engineer*

October 2016 - June 2017

- Build new features for the Cobalt law enforcement platform (https://www.mark43.com/rms/)

- Build new features in React/Redux
- Ensure backwards compatibility with existing backbone/knockout code
- Moved Redux related code to isolated modules for sharing across the Mark43 suite of tools

Rangle.io, Toronto — *Software Engineer*

March 2014 - October 2016

- Engaged in a number of full-stack Javascript consulting engagements
- Developed Angular 1.x/React applications from scratch, or extended existing client codebases
- Used NodeJS + Express/KoaJS to develop a wide variety of REST APIs, backing

Exclaim Solutions, Toronto — *Frontend Developer*

June 2013 - September 2013

- Consulted design team to optimize existing desktop designs for responsive mobile development
- Converted PSD designs to HTML/CSS/PHP for integration with internal CMS

Hanen Center, Toronto — *Software Developer*

June 2012 - September 2012

- Used Python to aggregate regional sales data from a Dynamics CRM server
- Created heat map visualizations of their sales using javascript

Projects

Check out my github!

WebDJ — *HTML5 DJing*

https://github.com/rafkhan/webdj

Hack the north 2014

- WebAudio based sound manipulation tools
- HTML5 Canvas audio visualizations
- WebRTC live streaming of DJ set
- MIDI integration for turntable compatibility

The Clusternator — *NodeJS DevOps Automation*

https://github.com/rangle/the-clusternator

- Docker + NodeJS based tool for internal devops at rangle
- Covers a breadth of AWS features, namely
    - EC2 + ECS for running docker boxes
    - ELB + Route53 to manage load balancing, DNS, SSL, and zero downtime updates
    - IAM / Dynamo to manage authentication

React Techno — *HTML5 Beat making*

https://github.com/rafkhan/react-techno

- Use webaudio to make techno beats!

Other Info

- Currently learning Elixir, huge fan of OTP already
- I have a **strong** preference to solve problems with functional programming
- LISP is my favourite type of language
- Actively using Javascript since I was 14
- I lost my TV remote while writing this, there are no buttons, so I turned it on with an arduino instead