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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 developing **frontend** applications
  - 3 years of **React** experience (**redux**, **react-native**, et al)
  - 5 years of **NodeJS** experience
- **Python** for data processing and general scripting
- **Java** and **Clojure**
- Huge UNIX fan, and regular **Linux** user
  - DevOps automation
  - **Docker**
  - Extensive **AWS** experience
  - **Bash**
- Various SQL & NoSQL databases, most notably **MySQL, PostgreSQL, MongoDB, DynamoDB, and Redis**
- **IoT** (internet of things) product development
- **Agile** process leadership
- Services built on **HTTP**, such as **REST APIs**
- **UI/UX** design

EXPERIENCE

Sensibill, Toronto — *Senior API Engineer*

February 2019 - Present

- Design and implement various API features in NodeJS with MongoDB to support the core product
- Fix incoming client requests from banks pertaining to the API
- Lead planning and execution of a large platform migration
- Asses and address security vulnerabilities in API code

Ovandi, Toronto — *VP of Software & Co-Founder*

June 2017 - Present

- Technical leader of cannabis consumer electronics startup
- Built prototype hardware

- Wrote firmware with **HTTP** and **Bluetooth** interface in **C++**
- Designed and developed **react-native** application to interface with the hardware
- Developed **technical strategy** in a resource constrained business
- **Lead junior developers** to deliver features and grow their skillset
- **Agile process leader**
- Iterated on product with client feedback
- Lead design team in **UX development** efforts

Mark43, New York/Toronto — *Software Engineer*

October 2016 - June 2017

- Build new features for the Cobalt law enforcement platform in **React & Redux** (https://www.mark43.com/rms/)
- Ensured 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 our various frontend applications

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 perform analysis of regional sales data from Dynamics CRM
- Created heat map **visualizations** of their sales using **Javascript**

PROJECTS

Check out my github!

React Techno — *HTML5 time-synced beat making*

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

- Use **WebAudio** to make techno beats!
- http://react-techno.s3-website.us-east-2.amazonaws.com/ (check it out)

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

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