Rafael Khan

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https://rafkhan.me
https://okaysynthesizer.com

Skills

- **10 years** of delivering large-scale, reliable **Javascript** and **Typescript** applications. Deep proficiency with **NodeJS, React**, and the associated ecosystem + tools.
- Multitude of databases, like **Postgres, MySQL, DynamoDB, MongoDB, Azure Tables** and **Redis**.
- Comfortable with many programming languages, like **C/C++, Java, Go, Python, PHP**, and more. I am always happy to learn new languages and technologies.
- **System design** for large and/or distributed applications.
- **AWS, Azure** cloud development
- Team **leadership, coaching, and training**. From assisting junior developers, to facilitating workshops, to agile process leadership.
- Experience with creating physical electronics projects, including one that is currently being sold and is used every day by many musicians

Experience

2021 - PRESENT
Okay Synthesizer – *Founder*

- My boutique, **open source, music hardware manufacturing company.** Specializing in digital synthesizers and other electronic music equipment
- Manufactured high quality **PCB/circuit designs** made in KiCad
- Wrote **high performance, low-level firmware in C++** capable of being ported to other CPU architectures / application runtimes
- Coached junior developer to **build software recreations** of our hardware, for use as a plugin in popular music production software suites

NOV 2023 - AUG 2023
THE LNK – *Senior Software Developer*

- Developed suite of backend integrations between our internal order/inventory system, with external big box **retail EDI** systems
- Worked with essential stakeholders (manufacturers, shipping logistics, retailers, internal teams, etc.) to fully **define our retail technical strategy**
- Built & maintained numerous features on the website (checkout, shipping, search, filters, etc.) with **NextJS / React**

FEB 2021 - NOV 2023
SSENSE, Montreal – *Software Developer 3*

- Built **next-generation shipping / logistics infrastructure** to support new, in-house warehouse automation hardware

- Developed scalable NodeJS applications on **AWS Lambda and DynamoDB** to handle the shipment of billions of dollars of customer orders.
- **Integrated global carriers** (FedEx, UPS, DHL, etc.), with warehouse hardware infrastructure.
- **Coached junior engineers** on good code practices, architecture / design, and otherwise supported their growth during the development of this project

FEB 2019 - FEB 2021

[Sensibill](#), **Toronto** – *Senior Backend Developer*

- Design and implement API features on NodeJS with TypeScript and MongoDB to support the core product
- Developed new "Extraction as a Service" product from the ground up, originally written in Go/MySQL, but later ported to TypeScript/Mongo for integration with the rest of our ecosystem
- Assess and address security vulnerabilities and bugs in API code
- Integrate Sensibill web platform with iOS Swift and Android Kotlin based internal SDKs

JUN 2017 - FEB 2019

Ovandi, **Toronto** – *CTO / Co-founder*

- Technical leader of cannabis consumer electronics startup
- Built prototype hardware
- Wrote **firmware with HTTP server and Bluetooth interfaces** in C++
- Designed and developed **react-native** and NodeJS applications to interface with the hardware
- Developed technical **strategy in a resource-constrained business**
- **Lead junior developers** to deliver features for the Ovandi platform and grow their skillset
- **Lead the design team** in UX development efforts

OCT 2016 - JUN 2017

[Mark 43](#), **New York**/**Toronto** – *Software Developer*

- 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**
- Refactor code to shared modules across the Mark43 suite of tools / development teams

MAR 2014 - OCT 2016

[Rangle.io](#), **Toronto** – *Software Developer*

- Engaged in a number of full-stack Javascript consulting engagements
- Full stack apps at the time consisted of Angular 1.x/React frontends, with Express/NodeJS backends. These were built from scratch, or extended existing client codebases