

## Lifelong Hacker

I began coding at 6 years old in BASIC on an IBM XT— and worked with everything I could get my hands on since. I've designed and implemented hundreds of media technology projects, and developed my skills in design, branding, and UX.

**I'm an enterprising self-managed software developer, seeking an opportunity to contribute to a great team.**

## Technical Skills

**SOFTWARE DEVELOPMENT** Java, Go, C++, Python, Ruby, SQL, NoSQL, Blockchain, Unreal, Supercollider, Max/MSP/Jitter, Node.js, Such JavaScript, So many frameworks, SCSS/SASS, Responsive design, HTML5, WebAudio, OpenGL.

**OPERATION** GNU/Linux, BSD/macOS, Windows, Security, Networking, Version Control, Configuration, Virtualization, Continuous Integration, Deployment, Enterprise container orchestration, Minimal viable production.

## Current Roles

**Founder, XJ Music ([xj.io](http://xj.io)) AI-powered medium for ambient music.** 2017— Present

- ✓ Inventor of U.S. Patent Application Serial No. 16/159,815 for Musical Audio Composition Generation.
- ✓ Built cloud platform where artists collaboratively compose music by uploading sequences and audio samples.
- ✓ Developed proprietary AI that trains a neural network with input material, then performs autonomously forever.

**Software Developer, CredSpark ([credspark.com](http://credspark.com)) audience engagement platform** 2017— Present

- ✓ Design and implement rich, interactive learning experiences leveraging branded content and NLG.
- ✓ Drive high standards for software development and operations practices on an all-remote team.
- ✓ Continuous radical innovation to keep codebase light, API discrete, and UI modules composable.

## Previous Work

**Software Developer, Signal ([signal.co](http://signal.co)) always-on customer identity resolution platform** 2014— 2017

- ✓ Senior member in an engineering dept. of only 40 that supports a platform with over a Trillion transactions per day.
- ✓ On a Skunkworks R&D team, we optimized to minutes a 100-billion-record ingestion process that used to take weeks.

**Software Developer, Kitchen Brains ([kitchenbrains.com](http://kitchenbrains.com)) commercial kitchen automation** 2014

- ✓ Built an API service and Mobile Web UI enabling independent field operators to survey markets worldwide.
- ✓ Independently implemented a web app to be “bolted on” to existing SQL database for market surveys.

**Software Developer, Rasmussen College ([rasmussen.edu](http://rasmussen.edu)) online education platform** 2014

- ✓ Create turn-key web platform to embed branded assets in partner websites viewed tens of thousands of times daily.

**Software Developer, InRhythm ([inrhythm.com](http://inrhythm.com)) design thinking software consulting firm** 2014

- ✓ Led a team of 15 engineers implementing a car rental frontend UI for **Hertz** within existing IBM WebSphere codebase.

## Early Career

**Startup Cofounder** 2009— 2013

- ✓ **RetailMLS** provides insights into the NYC retail leasing market by leveraging analysis of millions of data points.
- ✓ **Wendr**, a social networking mobile app with real-time backend; partnered with **AB InBev**.

**Media/Tech Freelancer** 2005— 2010

- ✓ Built social platform for David Blaine, on which he received 300,000 fan messages during a 7-day stunt
- ✓ Freelanced at agencies including **Big Fuel**, **Foundry9**, **Cheil**, **Hanft Raboy**, **Transistor Studios**, **360i**, and **Big Spaceship**.
- ✓ Designed & developed online media for **Activision**, **AIG**, **Chase**, **Colgate**, **Columbia**, **Freddie Mac**, **Hewlett-Packard**, **Kraft**, **Nintendo**, **Sallie Mae**, **Samsung**, **Stetson**, **Tassimo** and the **U.S. Department of Justice**.

**Student & Filmmaker** 2001— 2007

- ✓ Attended NYU Tisch Film & TV, focusing on media post-production technology, sound design, and animation.
- ✓ Produced, directed, edited, and animated music videos and promos, while freelancing on ads and features.

## Open Source Projects

<b>Music Theory</b> (Go) <a href="http://gopkg.in/music-theory.v0">gopkg.in/music-theory.v0</a>	<b>Audio Mixer</b> (Go) <a href="http://gopkg.in/mix.v0">gopkg.in/mix.v0</a>	<b>Count</b> (JS) <a href="http://npmjs.com/count">npmjs.com/count</a>	<b>Producteev Export</b> (JS) <a href="http://git.io/fjTPn">git.io/fjTPn</a>	<b>Trello to Pivotal</b> (JS) <a href="http://git.io/fjTPC">git.io/fjTPC</a>
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