

# Michael Hamilton

## Software Engineer

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## Experience

### Software Engineer:

*MSquare Healthcare/Johns Hopkins Collaborator (2018-present)*

- Designed and developed an integrated platform for therapists to control a world class therapeutic video game using tech such as React Native, Electron, and Node.js.
- Brought product to MVP within 4 months of hire.
- Developed and integrated a custom DMX controllable lighting solution installed in several hospital therapy rooms worldwide (using my own open sourced library).
- Developed and integrated an in-house reverse SSH tunneling service using AWS.
- Integrated multiple AWS services such as Cognito, S3, and EC2.
- Developed CI/CD pipelines using Azure, and a custom auto-updater using S3.
- Gained *some* regulatory/compliance experience (FDA, CE, HIPPA, etc.)

### Software Engineer:

*Ricochet Consulting (2018)*

- Contributed to various client projects with tech including Node.js, Meteor, React, PHP, Drupal, Ionic, and Angular.
- Worked remotely in a time-tracked, agile environment, participating in daily stand-ups and regular scrums with my clients.

### IT Director/Software Engineer:

*Church Nativity/Rebuilt Ministries (2013-2018, contractual through 2019)*

- Designed and built custom software solutions for internal and external organization applications including a capital campaign pledge tool, conference registration system, subscription based content portal, interactive kiosk, and more. Tech included Node.js, PHP, Ruby, .NET, and more.
- Developed software that integrated with 3rd party services such as AWS, Stripe, PayPal, MailChimp, Mandrill, SendGrid, MinistryPlatform, Planning Center Online, and more.
- Built registration and payment systems that handled over \$500k in annual transactions.
- Developed organization website which received awards for “*Best Use of New Media*” and “*Best Website*”.
- Some dev-ops experience deploying applications externally on services like Heroku, as well as internally on in-house hardware.
- Networking experience (installation, maintenance, cable terminations, etc.)
- Oversaw IT/AV design and installation during \$15M building expansion.
- Managed multiple annual budgets totaling more than \$250k.

### Full Stack Developer:

*Ignition72 (2013)*

- Contributed to various client projects, primarily using PHP, MySQL, Javascript, jQuery, Bootstrap v3. Also developed features for a custom, in-house CMS.
- Worked with design, development, and management teams at all stages of project lifecycles to collaborate on project direction.
- Independently developed client facing project management portal used by the entire company to manage client projects.
- Audio projects including music for NCUA video game, and misc voiceovers.
- Participated in client meetings for both new projects, and project reviews.

### Web Developer Intern:

*Blue Ocean Ideas (2011-2012)*

- Contributed to various client projects, primarily using PHP, MySQL, and CSS.
- Worked with designers to translate site mockups into functional websites.
- Developed Wordpress themes for client websites.

## Professional Skills

### Languages

Javascript (ES5/6/7), TypeScript, HTML5, CSS3, Sass, PHP, Ruby, Python, SQL, Elm, *some* C#, *some* C++

### Libraries/Frameworks

React, React Native, Expo, Express, Electron, jQuery, socket.io, Bootstrap (v3/v4), Foundation (5/6), Meteor, Ionic, three.js, Ember

### Other Tools/Services

Webstorm, XCode, Webpack, Parcel, Bash, Git, Github, Material, Grunt, MongoDB, MySQL, Heroku, AWS, Azure Dev Ops, Google Maps, Kubernetes, Stripe, PayPal, Mandrill, Sendgrid, Unix Environments (macOS, Ubuntu), Windows Environments, Nginx, Docker, Jira, Confluence, Photoshop, Ableton, *some* Blender

## Notable Projects

- **MindPod Platform**
  - Digital therapeutic control platform.
    - Electron, Node.js, Express, React/RN, AWS
- **dmxus**
  - Open Source Javascript DMX library.
    - Node.js
- **StepWise**
  - Stroke recovery app (Johns Hopkins trial)
    - React Native
- **LiveSlide**
  - Realtime presentation application.
    - Node.js, Express, MongoDB, socket.io, Heroku
- **RPA**
  - Paid content distribution service.
    - Node.js, Express, MongoDB, Stripe, MailChimp, Mandrill, Bootstrap, Ruby, AWS, Nginx, Heroku
- **KioskApp**
  - iPad based kiosk system.
    - Node.js, Express, MongoDB, Stripe, MailChimp, Mandrill, Bootstrap
- **Matter Registration**
  - Paid conference registration platform
    - PHP, MySQL, Bootstrap, PayPal, Mandrill
- **Pledge Tool**
  - Capital campaign credit card pledge system
    - PHP, MySQL, PayPal, Bootstrap

## Avocations

Making Music, Traveling, Flying Airplanes, Retro Video Games, Low Level Computing, Lighting Design, Computers From Before I Was Born, Dogs, The Office, Cats (not the musical), and Ducks.