

# Jason Kennaly

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[GitHub](#)

[StackOverflow](#)

Software Developer

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- 20 years of experience in programming
- 3 years of experience in database development
- 3 years of experience in back end software development
- 3 years of experience in full stack software development

## Technical Experience

### FestiGram

My flagship app FestiGram contains 3 sub-apps: Research, for researching festivals, Live, for use at the festival, and Admin, for inputting lineups and schedules and responding to customer service requests (e.g., DMCA takedowns).

- auth0 identity provider
- Dragula drag-and-drop interface for ordering stages
- Cloudinary CDN for storing pictures of bands taken at festivals
- Discussion features for talking about bands/discussing live sets
- Stores all data locally for a festival, allowing full use even with no network connection (enabled by a Service Worker and IndexedDB)
- Stripe integration for one-time payments and subscriptions
- Handles timezones seamlessly, even for live events taking place in a different timezone than the local environment
- App model uses function mixins to maximize code reuse when traversing event structures.
- Promises used heavily to minimize bandwidth: artist and festival data is only loaded when displayed, and is then cached. Comments from other users are updated more frequently.

## Programming Languages

Expert

**Ladder Logic**, 20 years

**IEC 61131-3 languages**, 20 years

**JavaScript**, 8 years

Proficient

**BASH**, 25 years

**C**, 1 year

**C++**, 1 year

**Java**, 2 years

**PHP**, 2 years

## Human Languages

**English** (native speaker) - expert

## Other Skills

Expert

**HTML5**, 8 years

**JSON**, 8 years

**AJAX**, 8 years

Proficient

**UI Design**, 20 years

**Linux**, 15 years

**Git/GitHub**, 10 years

**CSS**, 10 years

**SQL**, 10 years

**Node.js**, 4 years

**AWS**, 4 years

**REST**, 4 years

**XML**, 1 years

Basic

**SEO**, 1 years

- **StackOverflow** score in excess of 500

## Work History

### 0441 Design

**Developer**, 2017-present

Transitioned from engineering career to software development. Learned new skills as needed to meet project requirements.

Sole developer for FestiGram and other software development projects, such as:

- FestiGram **progressive web app**. This app is written using Mithril.js as MV\* framework, a RESTful API running Loopback on a node.js hosted by Heroku, with a MySQL database running in some dark corner of AWS.
- 0441 Design **website**. This site is built in Wordpress. It includes a blog, links to the apps I'm developing, and a Woocommerce store selling the game I'm developing as a digital download.
- Quantize **game**. This (local-only) app is built with a Mithril.js wrapper around a three.js game. The core game mechanic is using hashing algorithms to create a science mechanic based on an unknowable yet internally coherent science, that could be different each time even with identical start conditions.
- Redmine **server**. Created and managed Redmine server used for tracking time and progress on projects.

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### Stoner Engineering

**Application Engineer**, 2013-2017

- Designed, programmed, and commissioned a 14-PLC ABB robot system for an automotive paint plant, using an existing paint line in the same plant as a baseline project, and replicating functionality while upgrading the communication infrastructure from Profibus to Profinet.

- Managed numerous small automotive projects, such as adding HMIs, adding new conveyor functionality (adding new stations, adding additional tracking capabilities), or adding new robot capabilities.
  - Implemented using Siemens Step 7, Pilz PSS, Rockwell RSLogix 5000, and Copadata Zenon.
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## **Dynalectric**

### **Control Systems Engineer, 2010-2012**

- For a \$5MM pharmaceutical manufacturing facility project, worked as the Responsible Engineer for the design-build project.
  - Wrote a Functional Specification (FS) and a Detailed Design Specification (DDS) based on the client-supplied User Requirements Specification (URS) and their manufacturing process.
  - Specified instrumentation and controls based on the client's Process and Instrumentation Diagrams (P&IDs).
  - Directed programming of WonderWare InTouch HMI application and regulatory control logic.
  - Wrote the batch and phase logic based on a client-supplied batch engine using Rockwell ControlLogix processors.
  - Conducted an FAT and SAT of the system.
  - Supported the client during startup and commissioning of the system.
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## **Pacira Pharmaceuticals**

### **Automation Engineer, 2005-2010**

- Held primary responsibility for automation and control systems on two existing commercial bulk production lines, two commercial fill lines, all production utility systems for two sites, and numerous smaller laboratory-scale production systems and R&D systems, including water, wastewater, steam, HVAC and compressed gases.
  - Responsible for routine software and hardware maintenance on a wide variety of platforms, including managing version control of live programs, spare parts inventory for hardware components, and vendor service contracts for critical vendors.
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## **Regeneron Pharmaceuticals**

### **Automation Specialist, 2001-2004**

- Created a remote viewing system by extending the corporate LAN to each of the bioreactor PLCs and installing web server PLC cards in each PLC rack.
  - Enabled any authenticated software to read the state of the PLC memory.
  - Designed an HTML front end available to anyone with the correct security credentials.
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## **Education**

**1994-1998**

**Biochemistry/Biophysics; Rensselaer Polytechnic Institute (Troy, NY)**