Preston St. Pierre

Senior Software Engineer

JOON Enterprises *Senior Software Engineer* (2022 - 2023)

- Was brought on to help show their team how to modernize their Ruby on Rails back end, which had been writted by a number of different contractors without much communication. They were previously considering abandoning it and rewriting over a hundred thousand lines of code.
- Introduced the team to a service class based architecture, showed them how to write proper unit and integration tests, and implemented a safer, whitelist-based authorization model.
- As a result of the above, they were able to simplify a number of pieces of important code (such as the payment and accounting systems, which was required to get them certified for accepting credit cards).
- As such, they are no longer considering replacement of their Ruby on Rails code and feel it is a solid foundation to build on.

Technologies: *ruby, rails, react, typescript, postgres, yarn*

Aparadine Software *Project Manager* (2019 - 2021)

- My contracting company. Did freelance web development with various other engineers, mostly in Ruby on Rails, to pay the bills while I wrote a science fiction book.
- Responsible for finding profitable projects, collecting data from stakeholders, planning the technical designs and communicating solutions between all parties.

Technologies: *ruby, rails, javascript, postgres, markdown, vim*

Predictable Revenue *Chief Technology Officer* (2012 - 2018)

- As technical co-founder, I was responsible for everything for the first two years. This includes writing the first version of the CRM as well as the code to sync and send emails via the app.
- Grew the bootstrapped company to eight developers amongst dozens of employees and contractors doing over three million dollars a year in revenue.
- Directly managed recruitment of new software developers, including locating, interviewing, and onboarding.
- Helped design and implement a proxy-server based system for syncing and sending emails via customers' accounts. This let us scale up to hundreds of times the limits of a single server, to the point where the database was the new bottleneck.
- Set up a caching system for email generation to allow increased throughput during peak hours, including a cache-invalidation system to prevent incorrect emails from sending after data updates.
- Managed company databases, including configuring a read-only PostgreSQL replica to increase capacity and setting up a RethinkDB cluster with our company and contact data to provide our sales development representatives with efficient searches without disrupting the primary database.
- Responsible for security, availability, and reliability of all company servers and data. Personally handled configuration and patching of application servers. Configured scrambled data replication on the staging server for testing purposes.
- Developed a company/contact import script that parses data in the browser, automaps CSV columns to database columns, and lets the user preview the first ten rows to make changes to the column assignments.
- Part of the team that developed the UI for a highly specialized email client and admin portal in AngularJS.

Technologies: *ruby, rails, postgres, javascript, angularjs, rethinkdb, aws, redux, html, css, nylas*

eVision Media, Mediast *Web Developer* (2009 - 2012)

- Responsible for the entire stack of multiple client sites. Some created by me, others inherited.
- Themed various content management systems based on source templates from the design team. Required pixel-perfect accuracy on multiple browsers.
- Worked with a variety of different systems ranging from simple content management software like WordPress to extremely complicated extendable storefronts like Magento. Drupal was another frequent contender.
- Created a plugin for Magento that requested shipping quotes from Purolator, a local company, to satisfy the demands of a particular client. With permission, packaged and resold the plugin a few times. Made less than a thousand dollars, but it was my first time selling software so I was very excited!

Technologies: *php, python, javascript, mysql, wordpress, drupal, magento, joomla, oscommerce, phpnuke, phpbb, saintcms, photoshop, paintshop pro, html, css, apache, linux*

I started coding with QBasic and HTML in grade five as part of an advance placement program and immediately fell in love. The ability to give a computer commands felt so powerful, but more than that I simply enjoyed creating things.

Now, decades later, I still feel that way. As the apps I've worked on have scaled up in complexity and resource requirements the problems and solutions only get more interesting.

Primary Technical Proficiencies

React	**1+ years**
Ruby/Rails	**5+ years**
PostgreSQL	**5+ years**
Javascript	**10+ years**
Linux	**15+ years**
PHP/MySQL	**Too much**

Other Experience

To save you time, I've only listed the most relevant of my proficiencies here. I have experience with dozens of content management systems, multiple e-commerce systems, front end frameworks, and various other languages and technologies acquired through years of both work and simple curiosity.

If you're interested in more, let's chat about it.

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