Patrick Reagan

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Summary

I am an experienced, pragmatic software developer with a love for code quality, collaboration, and continuous improvement. I excel at breaking down complex engineering problems and building applications that deliver value across a diverse set of business domains.

Experience

Ideon - Staff Software Engineer
January 2023 - October 2023

At Ideon, I expanded our enrollments platform to connect benefit administration providers with a diverse set of insurance carriers.

- Led integration and onboarding of a new carriers to expand insurance benefit offerings and realize additional Q4 revenue
- Improved platform reliability by focusing on a behavioral testing approach that exposed bugs and allowed for better regression prevention
- Organized and led a bi-weekly cross-functional engineering meeting to showcase team achievements and share technology trends
- Mentored other engineers through focused pair-programming sessions and code reviews

KindHealth - Principal Engineer
February 2021 - December 2022

At KindHealth, I built technology solutions to help scale their growing brokerage business.

- Reworked critical pieces of their PostgreSQL database schema which improved data integrity and allowed us to capture more commission revenue
- Simplified operational complexity by migrating from a SQS / serverless setup to a proven Redis-backed queuing solution that provided better resilience at their smaller scale
- Improved the stability of their core platform through the addition of an integration test layer which allowed the team to more quickly develop features and squash bugs
- Built a shared data access library that provided a migration pathway away from an untested legacy Express / JavaScript backend towards a modern Nest.js / TypeScript backend
- Fostered an engineering culture of constant improvement through thoughtful code reviews, tech-focused presentations, and one-on-one remote pairing sessions with other engineers

Gloo - Staff Engineer: Platform
November 2019 - January 2021

As Staff Engineer, I architected and built several HTTP-based microservices in support of various in-market applications.

- Improved the quality and delivery of a variety of TypeScript microservices through better API design, thorough testing, and meaningful code reviews
- Helped scale an existing Rails API by directing database reads to be performed against our read-only Aurora replica to handle unique traffic spikes
- Led bi-weekly meetings that provided a venue for engineers to share best practices for application development, demonstrate platform observability features, and keep the team up-to-date on relevant technologies
- Coordinated and directed contractor teams in assisting with feature planning and bug fixes for critical in-market products and supporting microservices

Viget - Development Director
June 2005 - November 2019

In addition to my work developing applications for a variety of clients, I also:

- Helped grow the company's presence in Boulder from a single person co-working outpost into a full-fledged office
- Created and refined our engineering hiring process in order to provide consistency in evaluation and ensure that only the top candidates were considered for in-person evaluations
- Established, planned, and led the engineering team's bi-annual offsite meetings as a means to connect personally and improve professionally
- Improved software delivery by introducing agile methods that included iteration planning, acceptance test-driven development, and iteration retrospectives

Viget - Applications Technologist
November 2000 - June 2005

- Administered internal and client servers running a variety of operating systems, web servers, and databases
- Developed custom database-backed web applications for clients using a variety of languages, databases, and deployment configurations
- Provided technical leadership in the areas of payment systems integration and application performance
- Advocated and implemented development standards that included the use of version control, API documentation, and automated unit and integration testing
- Developed a reusable MVC framework written in PHP that streamlined the application development process

Selected Client Work

- **2018 - 2019** – Modernized the ticket purchasing experience for visitors to the **Shedd Aquarium** website by providing a deep integration with their existing ticketing software *(Ruby, Rails, PostgreSQL, API Integration)*
- **2017 - 2018** – Worked closely with the web team at **Bethesda Softworks** to re-platform microsites for their popular game titles (Fallout / Elder Scrolls / Quake) using a custom-built PHP library to fetch content from the Contentful API in time for a major E3 announcement *(PHP, Laravel, API Integration)*
- **2016 - 2017** – Launched the new "Best States" microsite for **US News** which allowed users to perform multi-faceted rankings comparisons between US states with data delivered from a major publisher as flat files *(Python, Django, PostgreSQL, Custom API)*
- **2012 - 2015** – Re-platformed the main **Shure** North America web presence which improved product promotion and provided better integration of custom tools *(Ruby, Rails, MySQL, Redis, API Integration)*

Selected Software Projects

- **PostgreSQL Migrator** *(Rust)* – A basic migrator library that will apply SQL files to a PostgreSQL database
- **Fleakr** *(Ruby)* – A full-featured API client for Flickr photostreams
- **Blog Service** *(TypeScript)* – An Express application for managing posts to a blog
- **dnsimple** *(Python)* – Re-imagining improved ergonomics for interacting with the DNSimple API
- **minecraft-server** *(Ansible / Python)* – Simplifying setup and teardown of family Minecraft servers

Publications

Advanced Rails Recipes / Pragmatic Bookshelf / 2009 (Contributing Author)
A Practical Guide to WinCVS and SSH / CvsGui Project / 2002
Using Oracle With PHP / WebMonkey (Wired Digital) / 2001

Presentations

Coding with Confidence: Adding TDD to Your Toolset / CMAP Fall Code Camp / 2009
Effective Testing for Rails Projects / Ruby Hack Day / 2009
Make Everyone a Tester: Natural Language Acceptance Testing / Developer Day DC & CVREG / 2009
Changing Your Mindset: Getting Started with Test-Driven Development / Lone Star Ruby Conference / 2007
Mockfight! Flexmock v. Mocha / NovaRUG / 2007

Education

James Madison University
B.S. Computer Science (1999)