Kevin Morgan

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Overview

Demonstrated strengths in robust software architecture and user interface design, backed by comprehensive product development experience. Anticipates obstacles and likely sources of change to ensure successful and timely delivery. Dedicated to excellence and getting the job done. Seeking full-stack or front-end software development, full time or consulting.

Skills

Client-side: Javascript (ES6+, Typescript), React, MobX, Redux, jQuery, Bootstrap, SVG, Canvas, HTML/SCSS/CSS3, single page applications, responsive design, interactive video and animations, webpack, yarn, npm, node.

Server-side: Ruby on Rails, Postgres, MySQL, messaging (sms, twilio, email), background jobs (Sidekiq, ActiveJob, cron), RESTful JSON apis, security, payment processing (Stripe), localization, performance tuning, unit and end-to-end tests (rspec, capybara), AWS, cloud66.

Experience

MSEE, PRINCETON UNIVERSITY
BSEE, CLARKSON UNIVERSITY

CONSULTING – 2017 - PRESENT

ParentPowered: Engineering and design for a family engagement program serving preschool aged-children and their parents. Contributed significant enhancements to the ParentPowered platform, including a fully-featured and performant data visualization and analytics application (replacing an expensive third party service and saving the company thousands of dollars a month), and a multilingual sms messaging application for preschool-parent communication. Also tuned database queries and optimized overall application performance (in some cases reducing lengthy processes by an hour or more).
(Ruby on Rails, React, Typescript, MobX, webpack/yarn, Bootstrap, SVG, SCSS/CSS3, RESTful apis, JSON, Postgres, Sidekiq, cron)

WECOUNSEL – 2016 - 2017

Engineering and design for a mental healthcare telemedicine application suite. Quadrupled the company's core subscription service offerings, tailoring each to the needs of a range of mental health clinics (from individual practitioners to enterprise). Each subscription offered a distinct feature set (client billing, calendar, chat, messaging, directory, sms, etc.), sign-up pages, billing, administrative functionality, and a trial. This enabled the company to attract new enterprise customers and increase revenue. Designed and implemented a SMS/Text service to provide therapy session reminders and contact requests for healthcare providers and consumers. Designed and implemented the company's directory of healthcare providers. Implemented dozens of other smaller features and bug fixes.
(Ruby on Rails, Sidekiq, Twilio, Stripe, jQuery, Bootstrap, SVG, SCSS/CSS3, Sketch, Omnigraffle, Affinity Designer)

KADENZE – 1 YEAR

Designed and developed the lecture video suite for Kadenze's online learning management platform. This included capabilities for creating and navigating playlists of video (self-hosted, YouTube, and Vimeo), as well as features enabling authoring embedded quizzes, subtitles, and other timeline-synchronized content to accompany video playback. Core to the learning experience, this video suite contributed to the product's adoption by Stanford, Cal Arts, and Princeton, among others.
(Ruby on Rails, Knockout, jQuery, Bootstrap, Video.js, SVG, SCSS/CSS3, HTML5 media element api, YouTube and Vimeo apis, WebVTT, AWS)

CONSULTING – 3 YEARS

The Response Network: Principal designer/developer for an online education platform dedicated to empathic and socially responsible training for law enforcement. Instrumental in rescuing a failed development effort of the platform by a third party, leading to a successful product launch and a customer base of 18,000 at contract's end. Also cut operating costs by 85% while expanding and improving the capabilities of the platform.
(Ruby on Rails, jQuery, Adobe Media Server, ActionScript/Flash, Cinema 4D, modo, After Effects, Photoshop, Illustrator, Premiere Pro)

Valco Data Systems: Design and development of the web-based healthcare application ePharmacy, a workflow and document management application used by in-hospital pharmacies to track and fulfill prescriptions.
(C#, .NET, JavaScript, SQL)

MUSICPLAYGROUND, INC. – 4 YEARS

Designed and guided a team of engineers in developing interactive software for music education and entertainment. This groundbreaking advancement of interactive music inspired the Rock Band and Guitar Hero line of products. It earned endorsements and praise from Roger Daltrey of The Who, Steven Tyler and Joe Perry of Aerosmith, and Paul McCartney (among other artists). Investors in the company saw a six-fold return.
(C++, DirectX, COM, Win32, ASP.NET, SQL Server)

THE INTERACTIVE MEDIA LAB, DARTMOUTH COLLEGE – 1 YEAR

Designed and developed the interactive multimedia framework for IML's healthcare education programs. Based on this work, Simon and Schuster published several titles, including HIV&AIDS, a training program for medical professionals. These programs were praised by the US Director of the CDC for their educational and emotional impact.
 (C++, Win32, QuickTime)

BELL COMMUNICATIONS RESEARCH (BELLCORE/BELL LABORATORIES) – 9 YEARS

Designed and guided a team of engineers in developing a software simulation of the public telephone network (for use in validating costly and complex central office switch installations). As one of the largest systems of its kind, it received international attention and influenced the evolution of the C++ language and object-oriented development practices. I spoke at national and international conferences with the designers of the C++ language, and I published several papers on the work.
(C++)