

SENIOR FULL-STACK SOFTWARE ENGINEER

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Dribbble Remote

SENIOR SOFTWARE ENGINEER

Jan. 2019 - Oct. 2020

- Part of small, 3-5 member engineering team, responsible for building out, scaling and maintaining the Dribbble experience, which supports over a billion page views a month.
- Built the new **designer search platform**, allowing employers to actively filter and search for **relevant** designers looking for work. Leverages **Elasticsearch** for filtering and relevancy.
- Built the new **talent platform**, which intelligently and automatically funnels vetted, relevant candidates to employers, allowing them to passively fill positions.
- Built the new **freelance project platform**, a marketplace for designers to connect with individuals and employers who need small projects completed.
- Served as **on-call** engineer, rapidly responding to, triaging and resolving issues, **ensuring site reliability** at all times. Became intimately familiar with the entire **11-year-old Rails application**, our infrastructure and its processes to ensure effective resolution of site problems.
- Built our **Docker & Docker Compose** setup for local development and **CI**, simplifying onboarding and normalizing our environments between development and testing.
- Explored new avenues for successful architecture and development, demonstrating effective **N+1 discovery and resolution**, potential **GraphQL** use cases, development over SSH, advanced debugging with RubyMine and VS Code, and more. Occasionally hosted brown bag lunches to cover advanced topics.
- Acted as close **mentor and advocate** for other teammates, making **pairing, code review and deep-dives** a daily affair.
- Built and scaled numerous API endpoints to power highly interactive and data-driven Vue components.
- Helped build numerous **Vue components** as we created new products across the platform.
- Introduced the **ViewComponents** pattern, allowing the backend templating engine to benefit from modern Vue/React/Angular-like patterns.
- Built **Server-Side Rendering** infrastructure to increase crawler and client-side performance for our increasingly Vue-heavy application.
- Maintained a commitment to quality at all times, **refactoring** the vast majority of modified code and achieving virtually **100% unit test coverage** for the PRs I created or adding it where it was missing.
- Maintained, refactored and improved **complex purchasing and subscription systems** using service objects and simple permissions classes.
- Created integrations with many other systems, including **Pipedrive**, **Salesforce** and more.
- Helped build system for paid promotion of uploads on the platform.
- Helped build complex onboarding and offboarding flows.
- Identified and resolved scaling painpoints by way of N+1 identification (using Mini Profiler and Bullet), enhanced and aggressive caching, denormalization of knowledge when necessary, use of New Relic to identify hotspots in Production, adding (and sometimes removing) indexes, making use of PostgreSQL query plans, and more.
- Built and sent numerous mass mailers to audiences with complex rules, ensuring the right people always received the right newsletters.
- Made heavy use of **feature flags and A/B tests** to ensure smooth rollout of new features and to ensure data always drove our biggest decisions.
- Responsible for large expansion of **admin interface**, always with an eye towards quality and ease-of-use.
- Built features to enhance core "uploads" functionality of site, such as a complex, rules-based upload
 permissions system that's also used heavily in our Elasticsearch logic, driving more revenue for one of our
 biggest products.

Sep. 2015 - Jan. 2019

Formed and led remote team that created a new, open source CMS (github.com/cortex-cms) designed to be
configurable, extensible, multitenant, modular and plugins-based, while still being backed by modern
technologies such as Rails, React, Sass, GraphQL, Elasticsearch, Redis and PostgreSQL's JSONB
functionality.

- Architected and built foundational features, extensively detailing implementation plans & proposals via Github Issues and hosting review & feedback sessions with team, helping to avoid costly mistakes further down the road.
- Flexible **content distribution** model allowed CareerBuilder to **spin down many disparate Wordpress/Drupal installations**, **saving money** by reducing reliance on expensive consultants and **boosting SEO** performance by deduplicating content.
- Mentored team of engineers, organizing weekly 1-on-1s, reviewing all pull requests, leading learning workshops, providing constructive feedback and goals, planning and pitching team headcount, encouraging developer-contributed architecture proposals and directing all Scrum meetings.
- Built nested, multi-channel/tenant **SaaS infrastructure** to serve diverse needs across the company, bringing all content and marketing teams under a single, **unified platform** that enabled content and configuration sharing with an advanced inheritance model.
- Created content **recommendation & relevancy** infrastructure, piping in-demand articles to job seekers through job listings and industry insight resources, solidifying CareerBuilder as a recruitment authority and increasing user base and **decreasing bounce rate.**
- Designed a Drupal-like Content Model system, which allows superadministrators, on the fly, to "lego" together and customize various Plugin-provided Fields, which can define validation, React, Elasticsearch and GraphQL behavior that can be further customized, per-Content Model, by a superadministrator. Allows platform to support incredibly flexible use cases.
- Created Shrine-backed plugin providing **full-featured Digital Asset Management**, allowing for dynamic post-processing rules, Cloud Storage & CDN support.
- Using dry-rb, formulated Service/Transaction Layer built around functional, "Railway-Oriented Programming" concepts in order to orchestrate higher-level business logic across resources and services, simplifying unit testing and error handling.
- Led **user testing** workshops, developing publishing & scheduling system, on-the-fly configurable roles & permissions, workflows and dynamic admin UI architecture in concert with content creators' feedback.
- Built Plugin-provided **Wordpress-like WYSIWYG** editor "**Widget**" **system**, allowing for **referential integrity** for versioned assets, highly configurable attributes for rich content, and complex **embedded** components such as **media galleries** and video players.
- Authored *Content* relation system, allowing for **complex & configurable semantic links** (i.e. among Articles and Media) between disparate *Content Models*.
- Harnessed Docker Compose to create a build process that transformed provisioning, environment setup and deployment into a turnkey process, radically simplifying onboarding and continuous integration/deployment steps. This also resulted in normalized environments across machines, reducing errors and hardening our testing process.
- Built advanced testing harness, allowing for core engine and plugins to be tested independently and easily
 via CircleCI.
- Created and authored extensive documentation portal (docs.cortexcms.org) for internal and external use.
- Led initiative and **produced business plan** to **open source** CMS and associated tools, fostering **community involvement and long-term maintenance** of in-house platform.
- Created <u>hiring.careerbuilder.com</u>, CareerBuilder's <u>employer marketing platform</u>, built with Rails, React, Sass, Redis and Docker on top of Cortex CMS. This new application helped <u>stabilize our revenue</u>, migrated purchases and subscriptions to a <u>brand-new self-service platform</u>, and <u>massively boosted SEO</u> to first-page, <u>top-five</u> performance.
- Designed and implemented composable & configurable React- and Cortex-based widget system, **allowing frontend team** to piece together new, **rich product pages in hours** rather than days or weeks.
- Authored numerous, complex React components to drive user conversion during discovery & purchase process.
- **Created** and architected on-brand, **responsive**, **lightweight Sass styling foundation** (similar to Bootstrap) built with **Bourbon** and **Neat** for marketing application and for use **across entire company**.

- Wrote comprehensive suite of **unit & integration tests** using **RSpec, Capybara, Jasmine, Jest & Enzyme**, ensuring platform stability.
- Utilized numerous tools (i.e. New Relic, Sentry, fragment/action/data caching, etc) to measure, scale and **improve site & SEO performance**, writing numerous user stories and defect cards to address issues and technical debt.
- Built Employer Resource Center platform atop Cortex CMS, allowing **relevant marketing content** to be piped into the employer experience during the discovery & purchase process.
- **Took over existing Shopping Cart Platform team**, overseeing resolution of performance, purchase and maintenance issues.
- Created architecture and plan for migration for brownfield Shopping Cart from .NET to Rails/React, working closely with leadership to develop next-generation purchasing platform for CareerBuilder.

Past Experience

CareerBuilder, LLC (See LinkedIn)

SOFTWARE ENGINEER II
SOFTWARE ENGINEER I

Atlanta, Georgia Jul. 2013 - Sep. 2015 Aug. 2011 - Jul. 2013

Soft Solutions, Inc (See LinkedIn)

SOFTWARE DEVELOPER

Atlanta, Georgia Jan. 2009 - Aug. 2011