Jonathan Staab

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Work Experience

Element Robot LLC   Moscow, ID
 Lead Developer   2014/04/01 - 2016/01/01

My experience at Element Robot was as full-stack as you can get. I was part of a team of three working on Skyforge, a workflow management system for 3D Printing, which we sold to Libraries, Universities, and Service Bureaus. My responsibilities included the following:

- Understanding the target market and tailoring the software to fit its needs. This included secure content management, multiple alternative workflows for processing orders, and preparing manufacturing code files in preparation for a print.

- Designing web and embedded interfaces based on the above use cases.

- Designing system architecture, including Docker for configuration management, webserver, proxy, dns configuration, asynchronous task queue, websocket server and client, database models, object-level permissions, and API, and a SPA frontend.

- Choosing technologies and libraries. We went mostly open source/free here, using Git for version control, Python/Django with a MySQL backend as our primary web framework served with Nginx and Uwsgi, Celery for our task queue, AWS S3 for storage, MongoDb and socket.io in nodejs for our realtime server, Python with Tkinter for an API client embedded on a Raspberry Pi, along with Angular and Bootstrap for building the web client.

- Monitoring errors using Qbaka, Rollbar, and NewRelic, and responding to them in a timely manner.

- Making backups and migrating data.

- Writing documentation in the code and interactive help text for the user interfaces.

- QA/testing – we mostly did this by hand, since we were in intense iteration mode, but we wrote tests for crucial components, including our payment models (we used Stripe for payment processing) and API.

- Planning and prioritizing tasks using GitHub.

A couple other things to note – this was a job with high responsibility and long working hours. While I was the first hire, the main burden of technical responsibility rested on my shoulders. We also love open source – most of our stack was comprised of OSS. You can also find the Django permissions app I wrote, which we open sourced, at https://github.com/staab/django-flexible-permissions.

Economic Modeling Specialists Inc.   Moscow, ID
 Web Developer   2011/10/01 - 2014/04/01

This was my first foray into Web Development. I began as an intern, and advanced to full developer. My responsibilities included:

- Responding to client issues and feature requests by creating issues in our tracking system and assigning them.

- Designing and building small components of the system, such as a statistics-oriented query builder.

- Writing unit and integration tests in Ruby with Capybara and PhantomJs

- Designing database architecture and optimizing queries.

Our technology stack was minimal – we used Git and SVN for version control, and our PHP web application ran on an Apache webserver with MySQL as the database backend. We didn't use any frameworks, and few libraries – we mostly developed our own over time. You can see our product, called CareerCoach, at https://slcc.emsicareercoach.com/#action=loadHomePage

Education

New Saint Andrews College   Moscow, ID
    Bachelors   2008/08/11 - 2012/06/01
    Liberal Arts and Culture
    3.5 GPA

References

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