

Dev Purkayastha, Web Developer

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Objective

Build engaging web applications with the best technologies.

Skills

Languages: Ruby, Javascript, PHP, Perl, Java, C

Frameworks: Rails, Sinatra, jQuery, Prototype, Node.js, Express.js, Backbone.js

Display Languages: HTML5, XHTML, XML, JSON, YAML, HAML, CSS

Testing: Test-driven development using Cucumber, Test::Unit, RSpec, Mocha

Backend Systems: MySQL, PostgreSQL, Oracle, Memcache, Solr

System Engineering: Apache, Linux, Mongrel, Passenger, Amazon Web Services (EC2, S3, etc.)

Other skills include:

- o design of REST-based APIs
- o dynamic interfaces via Javascript and AJAX
- o social game design
- o webapp performance and scalability
- o database design

Experience

Freelance Web Developer (2/09 - Current)

Client projects include:

- o web-based social games with AJAX interfaces
- o REST-based backends for iPhone applications
- o system for web-scraping and storage of data
- o automation of deployment for dynamically created Amazon EC2 instances
- o interface development for financial analytics

Eleven Learning, Director of Technology (2/09 - Current)

Cofounded **Eleven Learning** (<http://www.elevenlearning.com>), an educational publishing startup with a mission of delivering better online textbooks and a better online reading experience. Eleven Learning was part of the Imagine K12 startup incubator in the summer of 2011.

- o Developed a superior web-based textbook reader with annotation, highlighting features and social commenting.
- o Launched a social peer-review community, built upon the reader software.

Teaching Experience

- o Teaching Fellow for CS 50: Intro to Computer Science (<http://www.cs50.net>) at Harvard College (Fall 2009, Fall 2010)
- o Teaching Fellow for CSCI E-75: Building Dynamic Websites (<http://www.cs75.net>) at Harvard College (Summer 2010)
- o Teaching Assistant for Ruby on Rails Workshop for Women at the Berkman Center (October 2009)

Auburn Quad, Web Developer (7/08 - 2/09)

Developed software for online political fundraising. The primary client was **ActBlue** (<http://www.actblue.com>); through the 2008 election cycle, ActBlue raised over \$40 million in grassroots contributions. I joined to bolster development in preparation for the 2008 election.

- o Developed an asynchronous cache layer for contribution summaries, removing one of the largest performance bottlenecks.
- o Revamped the candidate directory for better faceted search via Solr.
- o Led the transition to automated deployment via Capistrano. This required custom deployment recipes due to the app's architecture and security policies.

Sugarloot, Director of Technology (9/06 - 7/08)

Led the development and launch of Sugarloot, a social networking site centered around contests and user-generated content. We operated as a subsidiary of a larger entity, but with the autonomy and aggressive pace of a startup.

- o Designed a responsive and scalable web backend through proper database design, memcache-based data caching, and reverse-proxy image caching.
- o Recruited the feature development team and implemented better development practices.

Sconex, Web Developer (2/06 - 9/06)

Developed for Sconex, a social networking startup focused on high-school students. The site was booming in popularity, and needed more developers for feature development and scaling work. Sconex was acquired by Alloy Media and Marketing; members of the team would form the core of Sugarloot.

BzzAgent, Web Developer (9/04 - 2/06)

BzzAgent is a word-of-mouth marketing firm. Its webapp was vital for communication between the business and its membership.

Liquid Machines, Software Developer (6/04 - 8/04)

Liquid Machines develops document-security software for businesses.

Education

Harvard University, B.A. in Computer Science (9/00 - 6/04)