Rajiv Tirumalareddy

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Specialties

HTML / HTML5	CSS / CSS3	PHP	MySQL	Javascript
Require.js	Backbone.js	Marionette.js	REST APIs	Nodejs
Socket.io	Bamboo	Apache HTTP	Ant	Nginx
AWS	Photoshop	Illustrator	MATLAB	Solidworks

Work Experience

Storystrings   4/2012 – 9/2013
Founder, Chief Technology Officer
- Built backend, including REST API, with Yii PHP MVC Framework and MySQL
- Built frontend with HTML5, CSS3, and Javascript using a combination of Require.js/Backbone.js/Marionette.js to create a single-page application (SPA)
- Set up a simple Node server with Socket.io to handle real-time collaboration between users
- Persisted site-wide HTTPS including CDNs with Cloudflare and custom SSL
- Customized Cloudfront to deliver static assets over CDN after deployment script compressed and compiled JS/CSS resources and uploaded to Amazon S3
- Implemented a continuous deployment workflow with Git, Ant, and Bamboo
- Integrated Cloudinary to compress and deliver all image assets and user-uploaded images via CDN
- Integrated Mixpanel and Chartbeat to track user funnels and churn
- Integrated with other APIs: Mailchimp, Mandrill, Facebook Open Graph, Instagram, Singly, Firebase
- Established Agile workflow with Atlassian JIRA and GreenHopper

Simul8 Group, UCLA Library   9/2009 – 5/2012
Web Application Developer
- Worked in a collaborative environment to conceptualize new projects
- Planned and developed the technology stack for multiple projects, e.g., Stashd.org

Project Lead - Stashd.org
- Led multidisciplinary team of frontend and backend developers and interaction designer
- Built backend using CakePHP MVC Framework and MySQL
- Built frontend using custom HTML5 and CSS3 created from mockups
- Built a bookmarklet with Javascript that allows 1-click saving of currently browsing article to database
- Designed and built a API endpoint to allow UCLA Library mobile search application team to integrate directly with Stashd.org
- Integrated with various UCLA Library internal API endpoints to enable access of

book, research article and digital collection search metadata
  - Integrated with Shibboleth Single Sign-on (SSO) to allow UCLA faculty and students access with existing university login

UCLA Rocket Project   9/2009 – 5/2012

Lead Propulsion Engineer
  - Led multi-disciplined team of 20 in research, design, build, and test iteration cycles of the Hybrid Propulsion Experiment 2 (HyPE 2.0) Rocket
  - Designed and built a sub-scale hybrid rocket, Mini Propulsion Experiement (MiPE), to study the effects of different fuel compositions, additives and ox-fuel ratios on fuel regression rate
  - Scaled up results from sub-scale tests to hybrid engine with the potential for 25,000 feet altitude
  - Created and modified rocket engine CADs using Solidworks

Education

University of California, Los Angeles   9/2008 – 6/2012

Bachelor of Science in Aerospace Engineering
  - Relevant Coursework: Computer Science (C++), Differential and Integral Calculus, Calculus of Several Variables, Linear Algebra and Applications, Differential Equations
  - Organizations: Engineering Society of UCLA (ESUC), American Institute of Aeronautics and Astronautics (AIAA)

Additional Experience

Lambda Chi Alpha Fraternity   11/2010 – 6/2012

Founder, Executive Board