Matthew David Litwin

Software Enginering Manager and Lead

Experienced in managing engineers, designing and implementing front-end and back-end systems, and educational software.

Experience / Work History

McGraw Hill Education

Software Engineering Manager

- Lead for a diverse Full Cycle engineering team
- Backend, front-end, infrastructure and support.
- Management of full time employees, contractors, and vendors.

Smartbook 2

An HTML5 update / rethink of older (flash based) Smartbook product. My team created the authoring application for augmenting ePub content with rich metadata, enabling an adaptive end-user experience. Angular 7 on the front-end, and multiple backend components (php, node).

Rich-Text Glossary

This was a component of MHE's authoring suite, enabled author creation of banks of Glossary terms and definitions. Supported rich text, images, mutiple languages. AngularJS on the front-end, node on the back-end.

Software Engineering Lead Desig and implmenetation of "Web Sketchpad", an HTML5 viewer for Geometer's Sketchpad documents. This was a ground-up re-implementation of the desktop softwares internal C logic into HTML5 / JavaScript.

- Planning and design
- implementation: coding, and directing developers
- negotiating feature-set and schedule with stakeholders

KCP Technologies

03/22/1999 to 07/31/2012

Junior programmer to Senior Software Engineer

- Technical project management, several direct reports
- C, Windows MFC, and Mac Objective C programming on The Geometer's Sketchpad
- Mac and Windows programming on Fathom $^{\rm TM}$ Dynamic Data $^{\rm TM}$ Software with an in-house cross-platform framework

Skills

- Practices: Scrum, Agile Programming, XP, Pair Programming
- IDEs: XCode, Visual Studio
- Source Control: git (svn, CVS)
- Issue Tracking: JIRA, Bugzilla, Trello
- Content Management Systems: Confluence, MediaWiki

Programming Languages

- HTML5/JavaScript/typescript Application Development
- C / C++
- \bullet terraform
- node, Perl, PHP, bash

Education

- University of California, Santa Barbara MS Mathematics 1997
- University of California, Berkeley BS Mathematics 1994

Contact and Sites

- mlitwin@sonic.net
- github
- linkedin |