Diane Douglas
Phone: (617) 823 5473 | Email: diane@melodiccode.com | Website: www.melodiccode.com

SUMMARY

Hardworking, creative software engineer specializing in web development and music technology.

EXPERIENCE

Lead Ruby on Rails Developer, Brand Value Accelerator   April '19 – Present

+ Continuing the same role as at Weblinc and also became a Shopify Certified Developer for new clients.

Lead Ruby on Rails Developer, Weblinc   March '17 – April '19

+ Tech lead for 4 clients: Sanrio, Olympia Sports, Do It Best, and PBS Animal Health. Also worked on 12+ other sites.

+ Full Stack dev with a focus on back end. Ran production deploys, mentored junior devs, communicated with clients about technical issues, and analyzed the scope of new issues with estimates in hours.

+ Part of a large developer team following Agile/SCRUM methodology with strenuous code reviews and emphasis on both working independently and helping each other whenever needed.

Curriculum Developer and Teacher, Epicodus Coding Bootcamp   Nov '14 – Feb '17

+ Taught and wrote the curriculum for the school's first PHP / JavaScript / Drupal class.

+ Fine-tuned the Ruby curriculum to include more focus on Test Driven Development.

+ Expanded the JavaScript curriculum to include Angular2 and Ember frameworks, gulp/npm/bower workflows, and projects using external APIs such as the GitHub API and Google Maps.

Music Software Engineer, Keith McMillen Instruments   Jan '10 – Jan '14

+ Developed cross-platform software applications in C++ with the QT environment for ground-breaking MIDI controllers using firmware written in C.

+ Worked with all levels of interface design and implementation, including prototyping the UI and DSP algorithms in Max/MSP as well as beta-testing and debugging the editors.

+ Created cross-platform installers for all our products including audio drivers, presets and software.

EDUCATION

Berklee College of Music.   2005-2009
Bachelor of Music Synthesis. Emphasis on: Music Production, Sound Design, DSP, Guitar Performance.

Stanford University CCRMA, University of California Berkeley.   2009
Audited graduate courses: "Human Controller Interface Theory", "Advanced Projects in Computer Music".

Epicodus.   2014
Coding bootcamp with emphasis on Test Driven Development & Pair Programming.

SKILLS

Languages:

Ruby, PHP, C++, C, JavaScript, jQuery, CSS, Python, Max/MSP, CSound, Elasticsearch.

Frameworks:

QT (C++), Drupal, Workarea E-commerce Platform, Wordpress, Angular, Ember, Shopify.

Testing:

RSpec, Capybara, MiniTest, PHPUnit, Simpletest (Drupal).

Databases:

MongoDB, SQL, ActiveRecord, Firebase.

3rd Party APIs:

Paypal, World Pay, Adyen (payment gateways), Kount (fraud detection), Avatax (tax calculation), Google Maps, Facebook tracking pixel, Google Product Feed.

Workflow:

Github, Subversion, BitBucket, Stash, Jira, Bamboo, Gulp, NPM, Bower, Composer, AWS Opsworks, Kubernetes, Heroku.

WORK EXAMPLES

Freelance Web Development:

+ **Contract work through WeSpeakEasy agency, Philadelphia:**
  LLBC.org: Drupal version update, front end content display features, back end bug fixes.
  wisdomplanning.com/how-we-work-together/#priority-planner: Fixed jQuery drag&drop issues.

+ **Fit HQ: E-Commerce Drupal site**
  Created and hosted an E-Commerce Drupal site for a gym with a client monthly subscription system for trainers.

Audio Programming Work:

+ **Practice Tube**
  A teaching tool written in JavaScript with the YouTube API which allows you to loop parts of videos at half speed to make it easier to learn songs on your instrument.

+ **Pendulum Shaper**
  Audio waveshaper plugin written in C++. It distorts an input signal with an algorithm based on the motion of a double pendulum.

+ **Collaborated with Max Mathews on Music Software Development:**
  Worked on a music performance instrument in C, co-authored a paper, added features & ported it to Max/MSP.

Curriculum:

+ **Epicodus Coding Bootcamp:**
  learnhowtoprogram.com/php, learnhowtoprogram.com/drupal, learnhowtoprogram.com/javascript

+ **Team Treehouse Drupal Course:**
  Wrote and performed: https://teamtreehouse.com/library/drupal-basics