Xiaoyun Yang

http://xiaoyunyang.github.io

https://github.com/xiaoyunyang

Contact

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SPECIALTIES

- [x] Web App Dev (Full Stack and FrontEnd)
- [x] Data (Interactive Data Visualization with D3.js and Machine Learning)
- [x] System Engineering (incl. communication skills and project management)

EXPERIENCE

Front-end: React, D3.js, AngularJS (1), Backbone, Underscore.js, jQuery
Back-end: Play, Node.js, SQL
JVM: Java, Scala, Play. Tomcat
DevOps: AWS, Route53, S3, git
Design: OmniGraffle, Adobe CC

KNOWLEDGE

Languages: Scala, Java, JavaScript, C, Objective-C, MATLAB
Software: Functional Programming, Object-oriented programming,
Web: REST, Web Security, Reactive programming, HTML5, CSS, Markdown
Mobile: iOS, Android
Design Patterns: Model view controller, functional reactive programming (FRP), observer patterns

CONTINUOUS LEARNING

Software: Swift
Web: Chrome/Firefox Plugin, Akka, Webpack, SEO
Data: Apache Spark, Kafka, Cassandra
Design Patterns: FRP, deep learning
Misc: Email marketing using MailChimp

EDUCATION & WORK

2015 -
Founder / LooseLeaf LLC; Washington DC
- Developed a web app for social learning management using social bookmarking.
- Implemented recommendation algorithms in Scala to facilitate content discovery and RESTful web services.
- Developed a single page application w/ React and D3.
- Implemented version control using git for modularized codebase (decoupled fronted and backend web app).
- Developed marketing illustrations and website illustrations in Adobe CC.
- Gave demo at TechDay and presented code at a meetup

2014 - 2016
Co-Founder / NumberShapes LLC; Washington DC
- Created iOS apps for a gamified early math education experience using a model-view-controller paradigm
- Created a website using SASS, Node.js, Express, and AngularJS: http://number-shapes.herokuapp.com

2014 - 2018
Nuclear Engineer / Naval Reactors; Washington DC
- Responsibility: Coordinate the support, maintenance, and R&D for major reactor plant components for the U.S. Navy's nuclear submarines and aircraft carriers.
- Side Project: Created a javascript web application (React.js and D3.js) for knowledge management and resource sharing that integrates with the existing workflow process tools on the confidential network.

Aug - Dec 2013
M.S. in Electrical and Computer Engineering
Carnegie Mellon University, Pittsburgh, PA
- Focus: machine learning and software design

Feb - Dec 2013
Software Engineering Intern
Software Engineering Institute; Pittsburgh, PA
- Designed and developed an application to investigate strategies to achieve pareto efficiency in a joint effort by stakeholders of conflicting interests.

Jul - Aug 2010
Web Design Intern / Its-your-internet LLC; Forest Hills, NY
- Created websites for clients using HTML and CSS.

2009 - 2013
B.S. in Electrical and Computer Engineering
Carnegie Mellon University, Pittsburgh, PA
- Focus: signal processing and embedded systems