

Xiaoyun Yang

Software Engineer. Project Manager.

<http://xiaoyunyang.github.io>

<https://github.com/xiaoyunyang>

Contact

email: xiaoyun@looseleafapp.com

phone: 718-640-5934

location: Washington D.C

SPECIALTIES

- ☒ Web App Dev (Full Stack and FrontEnd)
- ☒ Data (Interactive Data Visualization with D3.js and Machine Learning)
- ☒ System Engineering (software integration & project management)

SOFTWARE EXPERIENCE

Front-end: React, Redux, AngularJS (1), D3.js, Backbone, Underscore, jQuery

Back-end: Play!, Node.js, SQL

Mobile: ReactNative, Swift

JVM: Java, Scala, Play, Tomcat

DevOps: AWS, Route53, S3, Git/GitHub

Design: OmniGraffle, Adobe CC, Sketch

Leadership: Software project management for safety critical military applications

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, ReactNative

Side Projects

AnotherTravelApp: Mobile app built in ReactNative with crowdsourced to-do list for various destinations.

Functional Programming Tutorials: A collection of articles with Scala and Javascript examples.

EDUCATION & WORK

Jun 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

Jun 2014 - Mar 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>

Dec 2014 - Dec 2018

Nuclear Engineer / Naval Reactors; Washington DC

- Responsibility: Coordinated 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 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.

Aug 2009 - May 2013

B.S. in Electrical and Computer Engineering

Carnegie Mellon University, Pittsburgh, PA

- Focus: signal processing and embedded systems