Richard Xu

BioEngineer
</> Software Engineer
Photographer

Website : richardxu.me
Phone : +1(425) 623 6872
Email : richardxu@berkeley.edu

Linkedin : richardxu1
Github : xurichard
Flickr : richardxu

EDUCATION

University of California, Berkeley
Intended May 2017
Berkeley, CA

B.S. Bioengineering with a concentration in Computational Biology
Minoring in EECS (Electrical Engineering and Computer Science)
Current GPA: 3.106

WORK EXPERIENCE

Software Engineering Intern
TubeMogul
June 2016 - August 2016
Emeryville, CA

- Created pipeline for deployment of Maven project through Jenkins
- Fixed bugs in the caching framework to allow for faster serialization
- Tested and verified local testing environment

Engineering Intern
Bio-Rad
May 2015 – August 2015
Pleasanton, CA

- Built Qtools, an internal qPCR quatification tool
- Designed an information schema for migration from SQL to MongoDB
- Implemented algorithms to translate raw qPCR data

Web Developer
ICHA
November 2014 - Present
San Francisco, CA

- Built a new public website for ICHA from scratch, http://ichaonline.org
- Set up and manage the hosting services for the website
- Working on new doctor to patient tools

Front-end Designer
KNOX Medical Diagnostics
January 2015 – May 2015
San Francisco, CA

- Wireframed the mobile app design and hardware device design
- Created a new logo for the company
- Designed layouts for and modeled the spirometer hardware device

RESEARCH

Design of Membranes for Ion Transport
August 2015 – January 2016
Head-Gordon Lab

- Applied Poisson-Boltzmann Semi-Analytical Method onto polymer models
- Ran different simulations of different polymer-solvent combinations
- Deployed a database to store and access simulation results

Topological Relation Picture Scenes
January 2014 - May 2015
Language and Cognition Lab

- Expanded the space of Topological Relationship Picture Series
- Analyzed syntax changes between languages across time
- Parallelized our algorithms to speed up analysis by a factor of 16

LEADERSHIP

Design Chair
Biomedical Engineering Society
August 2013 - Present

- Designed and maintains our current website, https://bmes.berkeley.edu
- Heading the design committee for the 2016-2017 school year

Staff Assistant
Refuse and Recycling Services
August 2015 - January 2016

- Created and implemented projects to improve campus recycling and composting
- Coordinated with building directors to implement new procedures

RELATED SKILLS

Design

Adobe: PS, LR, ID, AI

Fusion360 (CAD)

Latex

Languages

Python	●●●●●
Java	●●●●●
HTML/CSS	●●●●○
Javascript	●●●○○

Frameworks

Django	●●●●●
Maven	●●●●○
Spring, JMX	●●●○○
Angular JS	●●●○○