Richard Lee

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EDUCATION

University of Wisconsin – Madison
B. Sc. *Computer Engineering, Computer Science*

SEPTEMBER 2012 - DECEMBER 2016

PROFESSIONAL EXPERIENCE

UW School of Medicine and Public Health, Madison, WI
Software Engineer

FEBRUARY 2016 - PRESENT

- Collaborated with medical staff to build a tool for simplifying the process in screening kidney donors, reducing evaluation period by 80%.
- Developed a post-processing log parser that analyzes the latency of page/asset rendering and database response time of 2 million lines of production logs daily.
- Spearheaded migration plan for legacy applications from Rails 2.0/3.0 to the service-oriented Symfony framework, cutting maintenance time and slightly improving request-response performance on browsers.

Intact Solutions, Inc., Madison, WI
Software Development Intern

MAY 2016 - DECEMBER 2016

- Implemented a cloud-based solution to simulate structural deformations and stress tests using a distributed task runner (IronWorker), allowing up to 20 workers running asynchronously.
- Integrated the application on different platforms, through app store listing and using tokens to authenticate credentials for custom RESTful API calls, doubling the number of users in the first month.
- Added memcache to the rails application to reduce database calls and amount of connections to AWS S3 buckets for result rendering.

SIDE PROJECTS/ACHIEVEMENTS

HackerRank Week of Code 30 Competition – Bronze Tier/15%

gBeta accelerator/incubator bootcamp – Top 5 ideas/company

Loop – Crowd sourced facility issue reporting using BLE Beacons

- Built using the Android platform, with Firebase and iBeacons.
- User's proximity/location was estimated with bluetooth localization, using RSSI values as the primary measure.

SOFTWARE SKILLS

Java

Javascript

Ruby on Rails

PHP 7/Symfony 3

PostgreSQL

HTML5/CSS3

C#/.Net MVC

C

TECHNOLOGIES

jQuery/Ajax

Git

AWS S3

Bootstrap

Apache/Nginx

MVC

Agile Methodologies

RELEVANT COURSEWORK

Data Structures

Algorithms

Cryptography

Artificial Intelligence

Computer Architecture

Databases

Operating Systems