QITAO LI

UC Berkeley
2014-2018

CONTACT

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CREDENTIALS

Passed Society of Actuaries:
Exam P (probability)

LANGUAGES

Python
R/RStudio
Java
C++
C
Scheme
SQL
MIPS Assembly

SKILLS

Git, Unix, Bash, LaTex, Selenium, REST APIs

Machine Learning: SVMs, Neural Networks, Random Forest, Gradient Boosted Trees, Linear/Logisic Regression

Frameworks:
Caffe
Torch/Lua
Tensorflow

EXPERIENCE

RESEARCH - UCSF ARTHRITIS IMAGING LAB (Xiaojuan Li)
September 2016 - Present

. Will implement a **convolutional neural network** in **Caffe** with 3D convolutions to classify voxels in wrist MRI scans as bone marrow edema or synovitis

. Will implement 3D segmentation techniques to segment wrist bones in MRI scans

SOFTWARE ENGINEER TEST INTERNSHIP - CITRIX
May 2016 - August 2016

. Worked as the **sole** Test Engineer on GoToMeeting's core meeting service backend scrum team

. Wrote and maintained a REST api test suite written in **Java** with Spring and TestNG

. Wrote automation that **located and prevented expensive errors** in the core service infrastructure (intermittent 500 errors, etc)

. Localized automation written with **Selenium Webdriver** for GoToMeeting frontend to seven different locales

AUGMENTED REALITY PLATFORM ON LUMUS - VR@B
January 2016 - May 2016

. Standardizing code by writing a SDK for the project in **C++**

. SDK includes Camera/IMU calibration, depth map retrievals, fingertip detection

. Uses Lumus DK-32, depth camera with attached RGB camera

. Uses **OpenCV** to achieve plane detection and fingertip tracking

PROJECT GUTENBERG BOOK CLASSIFIER
November 2015

. Built a classifier using support vector machines in **R**, trained on 24,000 raw text files from Project Gutenberg

. Classifies books as Science, Religion, Childrens, or History

. Text processing and creation of word features was done in **Python**

BITMONSTER - https://github.com/1heart/calhacks
October 2015

. Webapp made with 2 teammates at Calhacks, 2015 - won best use of Blockchain API award ($1250)

. Conduct Bitcoin transactions with seller aliases, seller reputation, and venmo-ish features

. Made with Flask backend and React frontend - worked on backend (**Python**/Flask)

EDUCATION

Univerisity of California, Berkeley   2014-2018

Majors: Statistics and Computer Science

GPA: 3.68

Relevant Coursework

(A) CS61A (SICP)	(A) Math 53 (Multivar. Calc)
(B+) CS61BL (Data Structures)	(A) Math 54 (Linear Algebra)
(B+) CS61C (Machine Structures)	(A) Math 104 (Real Analysis)
(A-) CS70 (Discrete Math and Prob.)	(A-) Math 110 (Linear Algebra)
(A-) CS188 (Artificial Intelligence)	(A-) Stat. 134 (Concepts of Probability)
(In Progress) CS189 (Machine Learning)	(A) Stat. 135 (Concepts of Stats.)
(In Progress) CS170 (Algorithms)	(A) Stat. 133 (Computing With Data)
	(B) Stat. 154 (Machine Learning)