Steven Shen

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EDUCATOIN

University of California, Los Angeles   Graduation Date: Jun 2017

B.S. Electrical Engineering Computer Engineering   **GPA:3.8/4.0**

Student Union Affairs

Eta Kappa Nu (IEEE honored society) | Tutor   Upsilon Pi Epsilon (ACM honored society) | Tutor

SKILLS

General Purpose Programming Languages: C, C++, Python, Java, Swift, Scala

Web Development: D3.js, JavaScript, PHP, HTML/CSS   **Math Modeling:** R, Matlab, Octave

Database: SQL, Hive, Hbase   **Distributive Computing:** Hadoop, Spark, pySpark

Others: OpenCV, Maven, Eclipse, ROS, LABVIEW, Bash, XML

PROFESSIONAL EXPERIENCE

Symantec Corporation   **Los Angeles | US**

Software Engineer Intern   *Jun 2016 – Sep 2016*

- Distinct count the signer information associated with the file keys with Hyperloglog algorithm over 1500 billion sets of data in order to find malicious files among billions of files with distributive computing.
- Extract data from hive, repartition RDD, distribute the dataset with scala and spark, finish the distinct counting hyperloglog in java, and update the data in hbase on yarn cluster nodes.
- Register UDFs on the SqlContext, process the large scale data by Dataframe, bulk read and bulk load data in typed RDD into hbase based on hbase-rdd API on yarn nodes.

BosonData   **Shanghai | CN**

Software Development Intern   *Jul 2014 – Sep 2014*

- Provide sematic analysis, NLP research on splitting paragraphs into words, classifying words and sentiment composition of paragraphs with python.

RESEARCH, PROJECTS & HONORS

IEEE UCLA   *Oct 2013 - Apr 2014*

- Build a Micromouse, running in the maze with the optimal route. Use Teensy 3.1, gyroITG-3200, infrared ray Sharp sensors and Encoder Rotenc to constitute the main part of micro-mouse, along with algorithm of flood-fill and PID controller.

Multimedia Communications and Systems Laboratory   *Jan 2015 – Mar 2015*

- Build the E-tutor system, database and the engine with Flask and python.

Center for Vision, Cognition, Learning, and Autonomy   *Jun 2015 – Jan 2016*

- Research on 3-D Reconstruction (Grasp the deep image with Kinect and reconstruct the 3D image in Meshlab with Shear Wrap Algorithm) with Ros, C++, Shell Script
- Research on robot Baxter inverse kinematics with simulation on Gazebo w/ Ros, Python and C++
- Web topic tracking president election; NLP topics analysis; trend prediction w/ JavaScript & D3.js

Autonomous Intelligent Networked Systems   *Jan 2016 – Mar 2016*

- Simulate the Vehicular Networking Protocol CSMA/CA along with IEEE 802.11 Ad Hoc Networks, including network layers, MAC and physical layers, in C++, MATLAB.

Group Project: Food Scanner   *Mar - Jun 2016*

- Build an IOS mobile phone app in Swift to track their daily nutrition and make use of the paired sales. Scan the bar code and query on Alamofire library to get food nutrition. Then data are sent to the data server and cumulated to get the total nutrition in database MongoDB. If the user selects the paired sale, the app will send the nutrition information location and the time stamp to the matched user.

Howard Hughes Medical Institute | Ozcan Lab   *Mar 2016 – present*

- Get familiar with the c-air project, and get ready for improving the software part of project.