Bryan Bo Cao

(720) 288-9556 bo.cao-1@colorado.edu Website: BryanBo-Cao.github.io | github.com/bryanbo-cao | linkedin.com/in/bryanbocao

PERSONAL PROFILE
Research Intern in Ericsson | **Robotics Research Assistant/Software Developer** in IronLab, CU-Boulder

EDUCATION
University of Colorado Boulder, USA,   **M.S. Computer Science GPA: 3.86**   Expected Graduate in 12/2017
    ●Object-Oriented Analysis & Design ●Big Data ●Neural Nets & Deep Learning ●Computer Perception ●Advanced Robotics
The University of Sheffield, UK,   **MSc Software Systems and Internet Technology**   09/2012-09/2013
    ●Web Technologies ●Advanced Java Programming ●Java E-Commerce ●Network and Internetwork Architectures
Guangdong University of Technology, GuangZhou, China **B.S. Computer Science and Technology**   09/2007-06/2011
    ●Data Structure ●Computer Architecture ●Computer Networks ●Operating Systems ●Software Engineering

TECHNICAL SKILLS
    Languages: **Java, Python, JavaScript & PHP**   Database: **NoSQL, Cassandra, HBase, MongoDB, MySQL**
    Frameworks: **Spring & Hibernate, Node.js, Bootstrap, jQuery, TensorFlow, MXNet**
    Methodologies: **OOP, UML, Design Pattern & MVC**
    Others: **Hadoop, HDFS, Spark, Kafka, Zookeeper, Docker, D3, OpenCV**

WORK EXPERIENCE
Research Intern   05/2017-08/2017
    Ericsson Silicon Valley, Santa Clara, California
    ●Working on research on **Collaboration on Augmented Reality** using **HoloJS, Node.js, WebGL** and **C++**.
Lab Network Systems Administrator   08/2016-05/2017   **Project Research Assistant**   02/2016-05/2017
    Laboratory for Interactive Robotics & Novel Technologies (IronLab), University of Colorado Boulder
    ●Research on **Human Robot Interaction**, using **Computer Vision(OpenCV, Kinect V2, JS)** and **Deep Learning(TensorFlow)**
Graduate Mentor for Spring Break   03/2016&03/2017
    IronLab(2017) & Correll Lab(2016), University of Colorado Boulder
Test Engineer   05/2014-11/2014
    IBM International System Technology Co. Ltd (ISTC), Shenzhen China
    ●Tested **System X** servers by **test code** run on **Linux**;
    ●**Front-end** co-designer of **Redfish** Project for **report auto-generation** using **Python, JavaScript, Bootstrap, web.py**.

PROJECTS & ACTIVITIES
ATLS 5214 Big Data Architecture   01/2017-05/2017
    ●GreenArrow - An interactive map displaying crime data **(AWS, D3, MongoDB, Kafka, Spark, Node.js, Zookeeper, Twitter4J)**
    github.com/CUBigDataClass/IceStream
CSCI 5448 Object-Oriented Analysis & Design   02/2016-05/2016
    ●Project: Robot Path Learning **(Java, MVC, URL, Design Pattern, Bootstrap, Spring, Hibernate, JavaScript, JSON, MySQL)**
    github.com/BryanBo-Cao/CSCI5448-RobotPathLearning-Team13
Independent Study Group -- Integration of Jaguar and Stewart Platform   08/2015-12/2015
    Integrated Jaguar and Stewart platform, control and communicate via **ROS (Robots Operating System) & SLAM**.
    youtu.be/Tb0sU9bNYIY
CSCI 5839-001 User-Centered Design & Development 1   08/2016-12/2016
    ●FeelCam. Prototyped a camera by detecting users' intentions by gestures, facial expressions or voice command.
    (**A/B Prototype, Usability Testing, Heuristic Evaluation**)
A Search Engine for Gathering Information from Social Media   03/2013-05/2013
    ●Used **HTML, CSS, JS, Bootstrap, JSP, Servlet, Java & MySQL**, aiming at gathering latest tweets using keyword(s) like
location, content, username or a combination of any of them.
Web Based Holiday System for the Medical School Postgraduate   09/2012-05/2013
    ●In the module of Maxi Project, using **HTML, CSS, JS, Bootstrap, PHP, MySQL**, developed on platform **WAMP(Windows
    Apache MySQL & PHP)**, aiming at building a system to replace the paper-based holiday application process in **Software
    Management** skills. URL: bryan55.com/HolidaySystem

SIDE PROJECTS
Animal & Traffic Classification using **MXNet**: https://github.com/BryanBo-Cao/x   08/2017-Present

AWARDS
Beverly Sears Graduate Student Grant award for **Human-Robot Interaction** research from **CU-Boulder**   03/2017
First Class Scholarships for academic excellence (top 3%) Bachelor degree study   09/2009-06/2010
Second Class Scholarships for students' All-round development (top 8%) Bachelor degree study   09/2009-06/2010