

Bryan Bo Cao

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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