

# Yao Zhang

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## Education

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### University Of Oxford

MSc in Computer Science, especially in Deep learning with Distinction Dissertation

Oxford, UK

Oct 2014–Nov 2015

### University of Nottingham

BSc in Computer Science, **First Class Honor degree, Rank: top 5%**

Nottingham, UK

Sep 2010–July 2014

## Work Experience

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### Senior Software Engineer, Intel R&D Asia, Shanghai

March 2017–Now

### Software Engineer, Intel R&D Asia, Shanghai

May 2016–Feb 2017

Worked on large-scale deep learning development

- As a main (ranked #2) contributor to BigDL: *Distributed Deep learning Library for Apache Spark*.
- Implemented and optimise cutting-edge deep learning models
- Successfully delivered large-scale machine learning solutions for customers, including Vision, NLP and so on.

### Part-time Software Engineer, Development Team, EASA Software, Oxford

Feb 2015–July 2015

Worked on a Java EE platform for fast authoring, publishing web applications and automatically transforming Matlab and Excel programs to web applications.

- Developed Java Web Applications, solved problems including Java, Database, Security and so on

### Research Assistant, Intelligent Modelling & Analysis Research Lab, Nottingham

July 2014–Aug 2014

Used NLP techniques to

- Built a program to identify and annotate the risk factors automatically for Heart Disease in Diabetic Patients

### Summer Intern, University of Nottingham, ASAP Research Group

Jun 2013–Aug 2013

Worked on a project which aims to schedule the port freight transportation

- Developed an *Android* app as client and an admin website for transportation tracking and management

## Projects

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Made useful tools and websites in *Java*, *C++*, *Matlab*, *Python* and *J2EE* with 10+ projects. Details in the project list on <http://psyyz10.github.io/projects/>.

### BigDL ([Link](#)): An open source *distributed deep learning Library for Apache Spark*

- An open source project on GitHub with *thousands of stars*, natively integrated with Apache Spark, performance comparative with GPU.
- As a main contributor with ranked #2 contributions

### Stock Prediction with deep learning (Master Dissertation) - High Distinction at the University of Oxford ([Link](#))

- Proposed an approach using financial reports to predict stock market trends with multiple deep learning models
- To learn sequential information of the events, proposed a new model by combining RNN-RBM and DBN
- Achieved a **top ranked** mark among the students in MSc Computer Science at the University of Oxford

### Plant Disease Diagnosis Application

- Developed an **android** application to identify plant diseases automatically based on leaf appearance
- **Computer vision** and **machine learning** techniques are applied and programmed with **Matlab** and **Java**

### A Mobile Auction Online System - First Class

- As a **technical leader** and main programmer within a group
- Built an online auction and shopping mobile system like ebay with **J2EE**

## Honors and Awards

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### High Achievers Awards for academic excellence

2012–2013

For top 10 (out of 180) students in Computer Science department at the University of Nottingham

### Head's Scholarship for academic excellence

2011–2012

For top 15% students at the University of Nottingham

## Professional skills

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**Professional:** Scala, Java, Haskell, Torch **Proficient:** MatLab, C/C++, Latex, MySQL, Spark, Tensorflow

**Prior Experience:** Keras, Theano, Mongo, JavaScript, CSS/Sass, Coq, OpenGL, Android, JSP