

# Tianchuan Du

**PhD student in Computer Science with research in machine learning and bioinformatics to offer data analysis, data modeling and software engineering skills**

Mountain View, CA - Email me on Indeed: [indeed.com/r/Tianchuan-Du/62e4a4d7b90e202f](https://www.indeed.com/r/Tianchuan-Du/62e4a4d7b90e202f)

PhD student in Computer Science with research in machine learning and bioinformatics to offer data analysis, data modeling and software engineering skills  
Authorized to work in the US for any employer

## WORK EXPERIENCE

### Software Engineering Intern (PhD)

Google - Mountain View, CA - June 2015 to Present

#### Responsibilities

- Implement large scale data analysis and data modeling for better Adwords account risk prevention.
- Build machine learning models for site content classification.

#### Skills Used

Java, BigTable, MapReduce and so on

### Research Assistant

University of Delaware, Computer Science Department - Newark, DE - 2011 to Present

- Facilitated with research projects and managed to performed independent research in machine learning and bioinformatics.
- Coordinated with research group members to create effective machine learning tools for bioinformatics users.
- Developed and maintained a web server to provide user-friendly web interface of the tools developed in our group.
- Communicated with professors in the design, execution and evaluation of research projects, including literature reviews, data integration and analysis.
- Generated and presented scientific reports in major conferences.

### Data Science Intern

Blizzard Entertainment - Irvine, CA - June 2014 to August 2014

#### Responsibilities

Developed data-mining, machine learning, and statistical solutions to understanding game design and key business behaviors such as player acquisition and retention.

Designed and constructed sophisticated statistical models to forecast key metrics.

#### Accomplishments

My project was put into production phase

#### Skills Used

Tableau, Machine learning, Hadoop, Deep Learning.

### Research Assistant

Southern University, Computer Science Department - Baton Rouge, LA - 2009 to 2011

- Cooperated with experimental biologists to analyze data and process data.

- Conducted 8R-Lipoxygenase docking simulation on high performance computer clusters.
- Communicated with experimental biologists to validate the simulated results and to model the docking process.
- Supported biologists by providing them computed protein complexes to facilitate their experimental design.

### **Research Assistant**

Louisiana State University, School of Renewable Natural Resources - Baton Rouge, LA - 2007 to 2009

- Performed plant oils extraction with supercritical carbon dioxide.
- Investigated the antifungal and antioxidant activity of extracted plant oils and performed statistical analysis with SAS.
- Conducted the experiments in a national forestry research center. Cooperated with other research groups.
- Found that supercritical fluid extraction could preserve the antifungal and antioxidant activity of plant oils.

## **EDUCATION**

### **PhD in Computer Science**

University of Delaware - Newark, DE  
2011 to 2015

### **M.S. in Computer Science**

Southern University and A&M College - Baton Rouge, LA  
2009 to 2011

### **M.S. in Forestry**

Louisiana State University - Baton Rouge, LA  
2007 to 2009

### **B.S. in Chemical Processing of Forest Products**

Northeast Forestry University  
2002 to 2006

## **SKILLS**

Python, Java, C/C++, MATLAB, SQL, Hadoop and Linux/Unix Administration. Machine Learning, Statistics, Deep learning, Information Retrieval, Algorithms, Natural Language Processing, Database.

## **ADDITIONAL INFORMATION**

### **PROFILE OF QUALIFICATIONS**

Machine Learning, Software Engineering, Object Oriented Programming, Data Analysis, Databases, Distributed System, Natural Language Processing, Information Retrieval

- Proficient in Python; Familiar with Java, C/C++, SQL, R, MATLAB, PHP, and Linux/Unix shell.
- Being able to work in a fast-paced working environment. Good communication skills. Self-starter who contributes analytical talents, including proactively collecting information and resolving project issues.
- Comprehensive knowledge and skills: Software Engineering, Information Retrieval, Nature Language Processing, Hadoop/MapReduce, BigTable, Classification, Clustering, Data Visualization, Support Vector Machines (SVM), Decision Trees, Bayesian Network, Logistic Regression, Linear Regression, Hidden Markov Model (HMM), Statistics, Recommendation Systems, Deep Learning and Deep Neural Networks.
- 6 years' programming experience; 4 years' data analysis and modeling experience.