

# Dejun Qi

3252 S Wallace St. Chicago IL | [dejunqi2008@gmail.com](mailto:dejunqi2008@gmail.com) | (646)678-8444 | <http://dejunqi2008.github.io/>

## EDUCATION

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### DePaul University - Chicago, IL

(Expected) Nov 2016

Master of Science in Computer Science

- ♦ GPA: 3.55 / 4.00
- ♦ Key Courses: Software development, Database, Algorithms, Machine Learning, Scientific Computing

### University of Arkansas Fayetteville, AR

May 2014

Doctor of Philosophy in Physics

- ♦ GPA: 3.74 / 4.00
- ♦ Dissertation: From Graphite to Graphene via Scanning Tunneling Microscopy

## EXPERIENCE

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### Full Stack DevOps Intern, American Family Insurance

2016 June - Present

- ♦ Writing web API for data extraction, processing and consistency checking using Python.
- ♦ Managing data on AWS S3 and EC2 with AWS-CLI;
- ♦ Working directly with architects and developers to create supportable designs and debug problems.

### Research Assistant, University of Arkansas

2010 Aug -2014 May

- ♦ Performed ultra-high vacuum scanning tunneling microscopy on graphene, semiconductor materials. Managed an electronic and atomic characterization laboratory

## SKILLS

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### Web development, Object-Oriented design, Networking, designing REST API, Scientific Computing, Machine Learning

- ♦ **Python:** Flask, Web2Py, NumPy, SciPy, Scrapy
- ♦ **Java:** TCP/IP socket programming
- ♦ **JavaScript:** Angular.js, Node.js, jQuery, AJAX
- ♦ **C#:** .NET
- ♦ **Cloud infrastructures:** Amazon Web Service (EC2 & S3), Docker
- ♦ **Version control:** Git & Github
- ♦ **Databases:** MySQL, PostgreSQL, MongoDB
- ♦ **Operating System:** Linux (Ubuntu, Fedora), Mac, Windows
- ♦ **Others:** PHP, HTML, CSS, BASH

## PROJECTS

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### Discussion Forum for CS Department ([https://407ccd0a5e.pythonanywhere.com/discussion\\_forum](https://407ccd0a5e.pythonanywhere.com/discussion_forum))

- ♦ Fully functional discussion forum that allows user (registration and login required) to ask questions, answer questions, and vote for the question they like.
- ♦ Python is used for back end development; AJAX is used for asynchronous call in the voting function; Database abstraction layer (DAL) is used for SQL injection prevention.

### Online shopping bookstore app

- ♦ A fully functional full stack online store. Implemented user registration, login, shopping cart, and payment method. Bootstrap and standard CSS were used for front-end design; C# with .NET framework were used for server side programming.

### Smartphone-Based Recognition of human activities and postural transitions

- ♦ Designed machine learning algorithm to analyze human activity signal recorded via smartphone.
- ♦ Successfully classified 6 standard movements and 6 transition movements with error rate less than 10 %.