Dejun Qi

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EDUCATION

DePaul University - Chicago, IL **(Expected) Nov 2016**

Master of Science in Computer Science

- GPA: 3.55 / 4.00
- Key Coursers: 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

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**,** managing applications deployment using Docker

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

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

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

PROJECTS

Discussion Forum for CS Department

This web app is hosted on 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 %.