Dejun Qi

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EDUCATION

DePaul University - Chicago, IL   **(Expected) March 2017**

Master of Science in Computer Science

- GPA: 3.61 / 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**

- Interacting with web API and web scrawling technique for data extraction and data processing.
- Designing REST API using Flask and Python.

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

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 %.

SKILLS

Web development, Object-Oriented design, Networking, building REST service and REST API, Scientific Computing, Machine Learning

- **Python:**   Flask, Web2Py, Django, NumPy, SciPy
- **Java:**   TCP/IP socket programming
- **JavaScript:**   Angular.js, Node.js, jQuery, AJAX
- **C#:**   .NET
- **Version control:**   Git & Github, Bitbucket
- **Databases:**   MySQL, Oracle, PostgreSQL, SQLite, MongoDB
- **Operating System:**   Linux (Ubuntu, Fedora), Mac, Windows
- **Others:**   PHP, HTML, CSS, shell scripting