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Gainesville FL 32608

DEREK C. HUA

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EMPLOYMENT

Teaching Assistant **University of Florida** **Spring 2016 – Present**

- Course: Programming Fundamentals I
- Held office hours and led programming lab sections.
- Allocated 10+ hours per week.

Peer Tutor **University of Florida** **Fall 2015 – Present**

- Location: UF CISE Academic Tutoring Center
- Assisted students with core CS curriculum.
- Allocated 15+ hours per week.

Software Engineer, Intern **MathWorks** **Summer 2015**

- Developed web application that explores the evolution of Maven-based project and their dependencies over time. –
- Built Java RESTful API and Angular front-end.
- Wrote processes that write meta-data from Maven repository to Neo4J database.
- Implemented and configured interactive, dynamic data visualizations using D3 to easily convey information.
- Built Python program that determines outdated technical support articles through clustering and natural language processing. –
- Used NLTK and implemented tf-idf (term frequency - inverse document frequency).

Teaching Assistant **University of Florida** **Spring 2015**

- Course: Information Systems and Database
- Assisted professor with exams and homework.
- Assisted students with core concepts of relational databases.
- Allocated 10+ hours per week.

EDUCATION

Gainesville, FL **University of Florida** **Fall 2012 – Spring 2016**

- Bachelors of Science in Computer Science (College of Engineering). 3.7 GPA.

TECHNICAL EXPERIENCE

Projects

- **Howdiy** (Present) – Developing a “How to DIY” mobile app, which allows users to view, create, and post DIY guides. Uses Ionic front-end framework and Node/Express.
- **Squire** (2016) – Chrome extension for hackathon that enables voice commands, and allows users to create their own custom commands (1st place). [derekhua.me/squire/]
- **Doodle Inspector** (2016) – Android multiplayer drawing game for hackathon (5th place). Gives users objects to draw, and uses web sockets and Clarifai to pair players and judge doodles, respectively.
- **KornShell** (2015) – Built command interpreter for a ksh-like command language in C.
- **UFBands** (2015) – Built web app with MEAN stack for the UF Marching Band department.

Languages and Technologies

- Java; JavaScript; Python; C++; C; SQL; HTML; CSS
- Unix, Git, Perforce