Uriel Alonso Gutierrez Chavez

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science, Philadelphia, PA   Dec 2014
Master of Science in Engineering, Systems Engineering
Relevant Courses: Linear Systems, Simulation Modeling, Engineering Economics, Entrepreneurship, Optimization

Lyon College, Batesville, AR   May 2013
Bachelor of Arts, Computer Science with minor in Mathematics, Physics, and Economics
Cumulative GPA: 3.575/4.00, Major GPA: 4.00/4.00
Relevant Courses: Data Structures and Algorithms, Programming Languages, Numerical Analysis, Statistics

PROJECTS

- **Schedule Optimization:** Designed and developed algorithm to find optimal class schedule for Penn masters students based on preferences and requirements using GAMS (non-linear optimization) and PennCourseReview
- **RAPP (Risk Analyzed Program Planning) Java Application**: Team Leader in the design of a Java application (using Swing) to analyze risk in large projects using Montecarlo simulations, NPV, IRR, and Cost/Benefit Analysis
- **Online Courses and Projects:**
  - Web Development (Udacity)
  - Python Programming (EdX MIT)
  - R Programming (Coursera Johns Hopkins)
  - Machine Learning (Stanford - ongoing)
  - Machine Learning nanodegree (Udacity – ongoing)

EXPERIENCE

GIS and Systems Analyst
City of Philadelphia Land Bank, Philadelphia, PA   July 2014 – Present
- Developed machine learning regression models to predict price of land and structures owned by the city
- Created automation scripts for the search and correction of thousands of documents in the City's servers using Python and Git; saved weeks' worth of work per script
- Optimized performance-tracking systems using Excel (VBA); resulted in 15% increase in performance
- Implemented VBA scripts to automate cost allocation spreadsheets for the Finance department
- Evaluated software used by the city, identified possible improvements and tested modified software

IT Student Supervisor
Lyon College IT Department, Batesville, AR   August 2011 – 2013
- Led and managed over 10 IT projects, such as the implementation of network systems to new buildings and the upgrade of network system across the entire campus
- Analyzed the technical difficulties of students, faculty and staff, designed and communicated possible solutions to technical and non-technical users, and implemented the solution selected by the customer
- Recommended new projects and communicated progress of ongoing projects during IT Management meetings
- Supervised and trained between 5 to 10 student workers in the technologies used by the IT department

Summer IT Intern
Ozark Information Services, Batesville, AR   Summer 2012
- Assisted with support and expansion of networks and database systems at over 20 local businesses
- Received positive feedback for implementing effective solutions and creating excellent rapport with clients

SKILLS

- **Languages/Libraries:** Python (including Scikit-learn, Numpy, Scipy, Flask), Git, Java, C++, MATLAB, R, HTML 5, CSS, Bootstrap, JavaScript, JQuery, SQL, Agile Scrum methodology
- **Applications**: IDEs (Eclipse, Android Studio, Pycharm), Git, Vim, Sublime Text, MS SQL Server
- **Operating Systems:** Windows, OS X, Unix/Linux (Ubuntu, Raspbian)
- **Languages:** English (fluent), Spanish (native), French (beginner)

LEADERSHIP AND AWARDS

Mortar Board National Senior Honor Society (2012)
Honor Council Member (2012-2013)
Lyon College Dean's List, fall 2011 and spring 2012

Tau Kappa Epsilon Fraternity – Xi Tau Chapter Student
Government Organization Member (2011)
Who's Who Among Students in American Universities