

# Uriel Alonso Gutierrez Chavez

3912 Bloor Street West, Etobicoke, ON M9B 1L7 • (647) 676-1592 • alonsoug@gmail.com • <https://alonsogc.com>

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## EXPERIENCE

**Tech Analyst** **Interbank, Lima, Peru** January 2018 – August 2019

- Analyzed business requirements and led the dev team in the design and creation of 9 cloud-based functionalities that improved the digital experience of the over 3 million digital customers through the Android and iOS Apps and Website.
- Participated in the first agile team that created and consumed an API architecture based on microservices. We used Java, Spring, Kubernetes, Kafka, Elastic and Redis among other technologies for cloud and distributed systems.
- Spearheaded technological improvements such as the implementation of on-demand Auto-Scaling of applications and Zero-Downtime deployments using Kubernetes, which I helped other engineering teams replicate.
- Led the DevOps initiative by improving and maintaining our Continuous Integration and Continuous Deployment Jenkins pipelines and implemented SonarQube for each deployment to ensure quality.

**GIS and Systems Analyst** **Philadelphia Land Bank, Philadelphia, PA** July 2014 – July 2017

- Improved the accuracy of land price models from an r-squared of 60% to over 85% by implementing machine learning algorithms with Python's Anaconda Distribution using Pandas, Numpy, and Scikit-learn packages.
- Created automation scripts for the search and correction of thousands of documents in the City's servers in Python and SQL with Git; saved weeks' worth of work per script.
- Automated cost allocation spreadsheets using VBA for the Finance department, reducing amount of work by half.
- Evaluated software purchased by the city, identified potential improvements and tested modified software.

**IT Student Supervisor** **Lyon College IT Department, Batesville, AR** August 2011 – May 2013

- Participated in over 10 and led 2 campus-wide IT projects, such as the implementation of network systems to new buildings.
- Promoted to IT Student Supervisor in Fall 2011, trained between 5 to 10 student workers per semester 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.

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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

**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

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## SKILLS

- **Programming Languages:** Python, Java, SQL, R, MATLAB, JavaScript, HTML 5. Exposure to Ruby/Rails, C++
- **Technologies/Frameworks:** Docker, Kubernetes, Git, Atlassian, Slack, Postman, SoapUI, Spring, Maven, Kafka, Redis, Jenkins, SonarQube, Elasticsearch, Kibana, Azure, IBM Cloud, Rest, SOA, Scikit-learn, Numpy, SciPy, Agile, Scrum
- **Operating Systems:** Windows, OS X, Unix, and Linux distributions such as AIX, Arch, Fedora, Ubuntu, Raspbian
- **Languages:** English (fluent), Spanish (native), French (beginner)

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## PROFESSIONAL DEVELOPMENT

- Web Development – Udacity
- Algorithms I and II - Coursera Princeton
- R Programming - Coursera Johns Hopkins
- Machine Learning – Stanford

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## PROJECTS

### Risk Analyzed Program Planning (RAPP)

- Collaborated in research to develop a methodology to analyze risk in large scale projects. Patented in 2017 (uia-inc.com).
- Lead developer for a RAPP Java app prototype involving the use of Montecarlo simulations, NPV and Cost/Benefit Analysis.

### Project: Schedule Optimization

- Designed algorithm to find optimal class schedule for Penn students based on their preferences and course requirements.
- Used GAMS (non-linear optimization) the Penn Course Review database.