NATALIE ARELLANO

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Web developer with comprehensive knowledge of data processing and analytics. Experienced in leading project teams toward technical and strategic objectives, with proven track record of exemplary execution and compliance.

TECHNICAL SKILLS

Languages: Ruby, JavaScript, Python, SQL, HTML, CSS ***Frameworks & Libraries***: Ruby on Rails, Sinatra, Bootstrap, jQuery
Data: Elasticsearch, Scikit-Learn, SAS, SPSS, R ***Tools:*** Amazon Web Services, Heroku, Airbrake, Asana, YouTrack, Git

EXPERIENCE

LIQUID TALENT, Engineer, *New York, NY (Mar 2016 – Jul 2016)*
- Ruby on Rails development for LiquidTalent platform, a discovery tool for meaningful professional connection (RoR API with Angular.js frontend)
- Developed Elasticsearch matching algorithm to improve user recommendations, leading to 55% increased engagement
- Refactored key elements of core code base to remove duplication, reduce coupling, and allow for acceptable re-use

FREELANCE, Developer & Data Consultant, *New York, NY (Sep 2014 – Present)*
- Development and data science projects for clients including Conversocial, Museum Hack, US Global Motors, Pet Amazing

EACHSCAPE, Engineer, *New York, NY (Sep 2014 – Aug 2015)*
- Ruby on Rails, Sinatra, JavaScript development for EachScape Builder, a web-based software platform for development of mobile iOS and Android applications
- Technical lead for re-architecture of web service integration between frontend and backend
- Developed strategies for data storage and retrieval – including database schema design, query structure and optimization, and remote asset management
- Designed user experience flows in partnership with Product team for enhanced usability and efficiency

AMERICAN EXPRESS, Senior Manager – Fraud Risk Management, *New York, NY (Nov 2013 – Mar 2014)*
- Continuously monitored global products to assess levels of fraud activity and ensure profitability
- Identified customer activity patterns requiring business action through statistical analysis and case reviews
- Led implementation of strategies and capabilities in partnership with Technology, Marketing, and Operations teams that resulted in significant increase in fraud capture and prevention, while minimizing customer disruption

AMERICAN EXPRESS, Manager – New Accounts Underwriting, Fraud Risk Management, *New York, NY (Aug 2010 – Nov 2013)*
- Ensured flawless execution of new accounts underwriting policy through continuous monitoring and analysis
- Used predictive modeling to improve real-time customer segmentation with additional data
- Maintained comprehensive documentation to ensure regulatory compliance, achieving 100% satisfaction in internal audit

US DEPARTMENT OF AGRICULTURE, Research Assistant, *New York, NY (Feb 2009 – Jan 2010)*
- Identified statistically significant characteristics of 4k+ surveyed civic organizations and their networks; published findings

EDUCATION

Recurse Center, *New York, NY (2016)*
- Self-directed educational retreat; areas of focus: Concurrency, Functional Programming, C Programming

General Assembly – Data Science Technology Course, *New York, NY (2015)*
- Linear & Logistic Regression, Support Vector Classification, Random Forest, Natural Language Processing/Text Classification

Flatiron School – Web Development Immersive, *New York, NY (2014)*
- Developed and deployed web applications using Ruby, Ruby on Rails, JavaScript

Columbia University, *New York, NY (2010)*
Master of Arts, Quantitative Methods in the Social Sciences (GPA: 4.0)
- Quantitative Methods in the Social Sciences Scholarship Award

Columbia University, *New York, NY (2006)*
Bachelor of Arts, Double Major in Mathematics and Dance (GPA: 3.67)
- Scholarships: American Federation of Teachers, Kluge Scholar, Karl H. Romero & Associates, Chela Financial