AMANDA J. LI

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WORK EXPERIENCE

VENMO, New York, NY   Oct 2013 - Present
Senior Software Engineer

- Architected and led a team of 7 in building a secure and scalable Python/Django/React.js web application for fraud and user investigations.
- Wrote REST-ful API endpoints in Python for core platform libraries used by internal and external API consumers
- Championed a responsible test-driven culture and improved test coverage for a business-critical application by 10x, reducing application outages and improving internal SLAs from 1 day to 30 mins.
- Built and maintained an internal Risk Engine that evaluates nearly every Venmo transaction. Worked quickly to adapt to new fraud patterns and develop new variables to catch and prevent fraud, saving Venmo millions of dollars.
- Implemented Single Sign On authentication for internal Python application using SAML 2.0
- Interviewed, mentored and trained employees on Python best practices and participated in hundreds of code reviews to help promote a collegial coding culture.

FOOD52, INC., New York, NY   Jan 2012 – Aug 2013
Senior Software Developer

- Designed and developed a Ruby on Rails / Knockout.js web application for a crowd-sourced food site with real-time cooking hotline and online retail store.
- Tripled productivity by transitioning existing machine infrastructure from Amazon EC2 server environment to EngineYard, involving systems administrator duties, software patching, front-to-back testing, and documenting new deployment procedures via internal github wiki. Developed and installed Chef cookbooks to automate server tasks and eliminate manual touch
- Integrated credit card payments and sales tax calculations for online retail store using third party APIs including Braintree Payments and Avalara

UBS INVESTMENT BANK, New York, NY   Jun 2008 – Dec 2011
Analytics Developer

- Worked on a multi-tiered global risk and valuation application for mortgage-backed securities, credit derivatives, whole loans, and other fixed income securities, architected with a Windows .NET /C# GUI front-end, C++ calculation and valuation, TIBCO communication layer, and Sybase database
- Collaborated with trading desks, control groups, and technologists globally to resolve support issues such as profit and loss report generation and portfolio risk calculations, requiring in-depth knowledge of Intex, Bloomberg, downstream trade capture and market risk control processes, and pricing algorithms for fixed-income securities.
- Built and maintained in-house .NET WCF services to allow clients real-time access to fixed-income securities valuations, instruments, and prices as part of a system-wide migration to service-oriented architecture.

EDUCATION

CORNELL UNIVERSITY, COLLEGE OF ENGINEERING, Ithaca, NY   2004 - 2008
BSc., Information Science Systems and Technology

SKILLS & INTERESTS

Languages: Python, Ruby, Java, Javascript
Frameworks: Django, Tornado, Flask, Rails
Databases: MySQL, Mongo
Source Code Repository: Git, SVN

Activities: Team USA Premier Women's Dragon Boat 2015; Captain, United Dragon Boat Team; Graduate, French Culinary Institute in NYC