

AMANDA J. LI

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OBJECTIVE

Proven leader in software development with 11+ years of hands-on technical experience. Build and manage high performing teams of software professionals. Expertise in building enterprise risk and user investigation tools and providing reliable and scalable platform services. Passionate about solving challenging technical problems that make an impact and help others.

WORK EXPERIENCE

VENMO, New York, NY

Engineering Manager of Internal Tools and Web

Mar 2019 - Present

- Moved off the Platform as a Service team to spearhead a new Web Engineering team to revamp all Venmo.com and mobile web experiences
- Managing a team of 5 contractors to address foundational Web platform issues including moving off of legacy AWS code deploy and into standardized coding pipeline, containerizing Web applications and moving them onto Kubernetes, sunsetting legacy Django/Python/Backbone/JS web application and migrating into NodeJS/Express/React/Redux
- Building out a product and engineering roadmap to support rapid experimentation, standardize frontend technologies, and decompose monolithic web app into smaller standalone apps.

Engineering Manager of Internal Tools and Platform as a Service

Jun 2018 – Mar 2019

- Increased responsibilities by additionally becoming the Engineering Manager of the Internal Tools team, and also the Engineering Manager of the Platform as a Service team.
- Led the Platform as a Service team of 10 to move platform architecture towards a distributed, event-driven processing paradigm and reduce reliance on asynchronous processing infrastructure.
- Worked with the Infrastructure as a Service team to containerize “Scope” application as a pilot for moving onto Kubernetes orchestration platform using Docker, Artifactory, Envoy, Helm, and Kibana. Pilot was successful and provided auto-scaling, zero-downtime deploys, and reduced deploy times by 5x.

Tech Lead of Internal Tools

Oct 2013 – Jun 2018

- Architected and led a team of 7 in building a secure and scalable Python / Django / React.js web application for fraud and user investigations.
- Championed a responsible test-driven culture and improved test coverage for a business-critical internal application by 10x, reducing application outages and improving internal SLAs from 1 day to 30 mins.
- Wrote RESTful API endpoints in Python for core payments processing libraries and internally-facing Tornado and Django web apps
- Built and maintained an internal Risk Engine that evaluates nearly every Venmo transaction. Worked quickly to adapt to new fraud patterns and build new variables to catch and prevent fraud, saving Venmo several basis points in loss.
- Wrote and configured Jenkins test suite for Python and React.js code using unittest, grunt, node, karma, mocha, and phantomJS.
- 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, pairing, and whiteboarding to share knowledge and to 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.

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- 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

Jun 2007 – Dec 2011

Analytics Developer

- Worked on a highly scalable, multi-threaded, 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

- *Activities:* Vice President, Information Science Student Association, Society of Women Engineers

SKILLS & INTERESTS

Languages: Python, Ruby, Java, Javascript

Cloud Infrastructure: AWS, Docker, Kubernetes

Databases: MySQL, Mongo, Cassandra, Redis

Activities: Team USA Premier Women's Dragon Boat 2017 (Gold, Silver and Bronze Medalist) and 2015 (Gold and Silver Medalist); Captain, United Dragon Boat Team; Graduate, French Culinary Institute in NYC