

Jonathan Fung

SOFTWARE ENGINEERING MANAGER

Experienced engineering leader with over 5 years of experience building engineering teams, delivering complex projects and over 15 years in software engineering.

Contact

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New York, NY

WORK EXPERIENCE



Software Engineering Manager / Apple

JULY 2019 - PRESENT

Responsible for a team of 10 building Apple Education products including Schoolwork and platform features like Student Information System integration.

- Successfully grew and mentored the team, guiding junior engineers to progress to Senior, Staff, and managerial roles.
- Launched two major revisions of Schoolwork, multiple enhancements to Apple's Student Information System integrations, Apple School Manager's Roster API, Sign in with Apple at Work and School, Claris Connect with Apple School Manager
- Responsible for ~40 services with a complex service mesh running on a Java & Python dual stack
- Introduced functional specifications as a SDLC requirement and detailed technical specifications allowing the team to run ahead of clients by up to a full release
- Successfully transitioned qualification of releases to 100% automated tests performed entirely by the team. Utilizing CI/CD, enabled fully qualified releases every two weeks down from months
- Reduced regressions by over 80%, greatly increased coverage, reduced one FTE dedicated to testing server

Technical Lead / Apple

MAR 2019 - JUL 2019

- Advocated for the creation of Test Engineering as a function and introducing the SDET role and explicit server-side testing, resulting in formally adoption and resourcing
- Helped guide leadership in reorganization of the server team to effectively address infrastructure engineering and developer productivity
- Developed pytest based end-to-end qualification suite. Led several other engineers to create a BVT suite and initial regression test suite
- Trained manual testers to help them transition from a QA tester to an SDET role

Senior Software Engineer / Apple

AUG 2015 - MAR 2019

- Successfully integrated technology from prior startup allowing a relaunch within a year under Apple branding

EDUCATION

2009 | BS
Computer Science
UNIVERSITY OF WASHINGTON

SKILLS

Building Teams
Mentorship
Technical Leadership
Systems Design & Review
Backend Engineering

TOOLS

AWS
Python
Flask
HTML/JS
Git

SOCIAL

in/jonathancfung

- Built ETL Pipeline to integrate Student Information Systems with Apple systems enabling mass account creation for customers to rapidly onboard
- Developed secure and sandboxed SFTP dropbox to allow customer driven pushes to Apple School Manager, responsible for ~95% of all integrations with ASM today and millions of user accounts
- Launched Schoolwork 1.0 product and ClassKit SDK allowing third-party developers to integrate with iOS for progress tracking
- Developed library that became the standard python library for integrating with CloudKit DB internally
- Built a full-stack customer support tool webapp with Flask based webserver



Software Engineer / LearnSprout

MAR 2012 - AUG 2015

Founding engineer at an education-technology startup acquired by Apple. Built technology to integrate with school Student Information Systems and provide recommendations and analysis on student data. Full-stack engineer responsible for building backend services and the web-based front-end.

- Launched early warning system to identify students at-risk of not graduating
- Built API allowing for third-party developers to use school roster information stored in Student Information Systems
- Integrations with the largest school systems including PowerSchool, InfiniteCampus, Aeries, and more
- Built backend services on AWS with a Python and Mongo tech stack
- Designed and built web interface



Member of Technical Staff / Adobe Systems

JUL 2009 - FEB 2012

- Building web applications using Adobe Flex and AIR
- Developing websites using HTML, JavaScript, jQuery, and Kentico CMS
- Analytics, A/B and multivariate testing through Omniture Test & Target and SiteCatalyst



Other Engineering Experience

2007 - 2008



- Software Development Engineering internships at Expedia, Google, and AutoDesk