

Zequn Yu

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EDUCATION

MSc Computer Science, **University of Southern California** 📍 Los Angeles Jan. 2019 - Dec. 2020
GPA: 3.61/4 • Advanced courses: Multimedia Systems, Information Retrieval

BSc Computer Science, **University of Nottingham** 📍 Ningbo-Nottingham Sept. 2014 - Jun. 2018
1st class honours • GPA: 3.93/4 • Advanced courses: Functional Programming, Machine Learning

SKILLS

PROGRAMMING	JavaScript, Java, Python, Swift, TypeScript, Shell Script, Ruby
FRAMEWORKS	React, Spring, Dagger, RxJS, Next.js, Guice, Flask, Node.js
TOOLING / CD	Git, Vim, Xcode, VSCode, IntelliJ, LaTeX, Github Actions, Codecov
AWS	SNS, SQS, DynamoDB, Lambda, CloudWatch, CDK, EventBridge, AppConfig

EMPLOYMENT

Alexa Mobile Notification, **Amazon** 📍 Santa Monica

Software Dev Engineer II Apr. 2022 - Present

- Implemented new feature to capture remote notifications locally in iOS extension by [GRDB.swift](#)
- Modularized Android messaging notifications code into a new [Java](#) library package

Software Dev Engineer I Feb. 2021 - Mar. 2022

- Operated 4 services for sending notifications and real-time events combined 350K transactions/second
- Integrated dynamic throttling system to the Java Spring push notification service
- Launched a new API to send 10K+/day background notifications to iOS/Android/FireOS mobile platforms

SD-WAN Orchestrator, **Citrix Systems** 📍 Santa Clara

Software Engineer Intern May. 2020 - Aug. 2020

- Developed new Orchestrator UI features using [React Hooks](#) + [Redux](#) and [Jest](#) + [React Testing Library](#)
- Refactored 10+ statistics policy API in [Java Spring](#) benefiting hundreds of Citrix customers
- Experienced [Webpack](#) bundler, [Docker](#) container, and Jenkins CI deployment

RESL, **USC Viterbi School of Engineering** 📍 Los Angeles

Software Engineer Student Worker | [garage](#) (1.4K+ Github ★) May. 2019 - Apr. 2020

- Maintained the open source RL framework in [Python](#), with emphasis on system and API design
- Merged 40+ commits to the main branch with 20K+ lines change and 5% codebase coverage increase
- Refactored the core of [garage](#): LocalRunner, experiment API and evaluation interface
- Introduced the [garage-benchmarks](#) CLI tool and refactored benchmark code to 90% less lines
- Designed and built an auto-benchmark system integrating with GCP and Next.js

PROJECTS

Travel Dashboard: Travel Expense Track and Analysis 📍 Nottingham

Sponsored by Atos UK | Advisor: Prof. Natasa Milic-Frayling Sept. 2016 - May. 2017

- Developed [JavaFX](#) software with [MySQL](#) to support travel expense report from Excel to PDF
- Coordinated the project with *Atos UK's* engineers and experienced agile development
- Achieved the highest personal score (92) of the course in CS school