David Ho

United States Citizen

davidhodev@gmail.com
github.com/davidhodev ● davidhodev.github.io/personal-website/about.html
(213) 605-5210

Work Experience

Apple Inc. **July 2021 – Present**
Senior Software Engineer
- Developing MusicKit, MediaFrameworks, and Apple Music app on all Apple platforms.
- WWDC '22 presenter: https://developer.apple.com/videos/play/wwdc2022/110347
- Created the APIs for playback, library queries, library modifications, item models, and more.
- Worked in Swift, Objective C, C++, and SQL for UI and framework development.

Peloton **July 2020 – July 2021**
iOS Software Engineer II
- Creating the Peloton App for iOS, WatchOS, and TvOS
- Tech Lead for 10+ projects, significant feature, and A/B test creation using integrations with RESTful APIs.
- Projects include Internationalization, Apple Health Integration, Facebook Connect, Strive Score; refactoring of the Player, User Profile, Programs, Onboarding, and more company confidential features.

Yahoo! Inc. **May 2019 – Aug. 2019**
iOS Software Engineer Intern (Yahoo! Fantasy Sports App)
- Worked in Swift and Objective C to create new views, manage API calls, add analytics, write Unit Tests, and create new features in existing views.
- Contributed in production on the new Fantasy Draft "Best Ball" flow and links to existing features.
- Prepared for scaling for the upcoming football season (10 million active user a month).

STOR **Dec. 2017 – Dec. 2018**
iOS Developer
- Programmed front end and back end for an iOS application in Swift (github and website private – request please)
- Worked and held meetings with lawyers from Airbnb, spoke to investors about future funding.
- Backend Development with Firebase using NodeJS and set up payment system with Stripe.

Research

Using Word Embeddings in Abstracts to Accelerate Metallocene Catalysis Polymerization Research **Aug. 2019 – Apr. 2021**
Lead Researcher and Author
- Laboratory-scale catalyst screening and characterization to broadly accelerate materials development and polymer commercialization. Uses artificially intelligent bibliometric analyzers to address the technical challenges to better observe and analyze the catalyst process. Created a machine learning algorithm to read research abstracts and apply them to predict chemical activators and catalysts. Led by Ryan Hartman PhD.

Education

New York University Tandon School of Engineering New York, New York
Master of Science in Computer Science Dec. 2020
GPA: 3.9 / 4.0
  - Published to Computers and Chemical Engineering for Machine Learning Applications
  - Tandon Achievement for Outstanding Academics (2020)
Graduate Coursework: Machine Learning, Big Data, Info Security, Penetration Testing, Network Security, Advanced Algorithms II

New York University Tandon School of Engineering New York, New York
Bachelor of Science in Computer Science May 2020
GPA: 3.8 / 4.0
- Graduated Magna Cum Laude
- Tandon Scholarship (Full Tuition Scholarship)
- Dean's List (4 consecutive years)
- Tandon Engineering Honors Program
- Varsity Volleyball Athlete
- UVC All-Academic Award (4 consecutive years), Student-Athlete Academic Achievement Award

Notable Achievements

Computer Science / Engineering
- Iraj Kalkhoran I2E Award 2nd Place (2016) - Best product (Detektor), amongst all freshman honors engineers
- Most Technically Impressive for iPhone Application PUUL (2016) - Created carpool app for LA-based high school

Volleyball (NYU Varsity / USA Youth National / High School)
- United Volleyball Conference Champion, NCAA Participant, USA Youth National A2 Team, Junior Olympics Player

Skills

Proficient in Swift, RxSwift, RxCocoa, UIKit, HealthKit, Optimizely, Python, C++, Java, Tensorflow, NumPy, Pandas
Skilled with CoreBluetooth, CoreLocation, CoreMotion, AVFoundation, MySQL, C, Objective C, Firebase