
Education

- Jan 2017–Present **M.S.**, *University of Southern California*, Los Angeles, CA.
Computer Science
- Sep 2010–May 2014 **B.S.**, *Washington and Lee University*, Lexington, VA.
Computer Science, Mathematics

Experience

- Mar 2019– Present **Senior Software Engineer, Video Integration**, *FreeWheel*, New York, NY.
- Nov 2017– Mar 2019 **Software Engineer, Video Integration**, *FreeWheel*, New York, NY.
The Video Integration team in FreeWheel specializes in developing, maintaining and supporting the AdManager SDK, a framework for video players to play advertisements stored in FreeWheel's ad server
- o Implement new features and enhancements for AdManager and its test framework, including adaptations to the new OpenMeasurement framework, using JavaScript, Java and/or Objective-C
 - o Work with Comcast on their X1 integration with FreeWheel ad server
 - o Redesign and implement AdManager release process on Jenkins so that each release takes under 1 hour, instead of up to 6 hours in the past
 - o Implement and maintain Zendesk applications using Zendesk Application Framework V2 to expedite communication between client, client services, and engineering
 - o Organize and host training sessions on Video Integration related subjects for new employees of FreeWheel engineering team
 - o Conduct code review for teammates
- Sep 2016– Nov 2017 **Software Engineer, AdServing**, *FreeWheel*, Beijing, China.
The AdServing team in FreeWheel maintains servers that handle clients' realtime requests for advertisements and make decisions on which ads to select
- o Implement new features and enhancements for ad server in C++, as well as its test cases
 - o Created a Chrome extension that could debug and analyze advertisement selection and delivery realtime on client players
 - o Developed some team internal tools using Python, including one that locates the exact git commit to the team repository that breaks daily regression test cases
 - o Handled relevant support tickets filed by clients and FreeWheel support team
- May 2015– Apr 2016 **Service Engineer, Video Integration Service**, *FreeWheel*, New York, NY.
- o Implemented JS AdManager "Live Mode" for Comcast X1 integration with FreeWheel; this results in smooth ad delivery during Rio Olympics
 - o Developed new features for AdManager, including one that enables skipping currently playing advertisement on iOS
 - o Solved clients' problems on all video integration issues, in the form of support tickets; Up to this time, 100% of my ratings by clients are ranked as "Good"
 - o Joined teleconferences with client developers and ad operations to provide real time solutions
 - o Reported and fixed integration issues client developers and ad operation specialists had raised
- Sep 2014–Apr 2015 **Infrastructure Intern**, *Center for Open Science*, Charlottesville, VA.
A non-profit organization that develops tools, including the *Open Science Framework*(OSF) and *SHARE* Notification Service, to help scientists to do research.
- o Implemented the new project-wide comment system to *Open Science Framework*(OSF) with Flask Microframework
 - o Implemented notification service for PubMed Central, so users could be alerted when new articles are published on PMC

Skills

- Technical Proficient in Python, Objective-C, JavaScript, Java, \LaTeX ; Familiar with MySQL;
Experience with git, Jira, Jenkins, Node.js, Zendesk API, Flask, Chrome Extension API, etc
- Languages Chinese (native), English (professional)