HARRY LIU

harryliu.io | github.com/Harry-L | harry.liu@uwaterloo.ca | (604) 379 1832

TECHNOLOGIES

Swift, JavaScript, Scala, Java, C++, C, Objective-C, Scheme, HTML, CSS

WORK EXPERIENCE

Software Engineering, Yahoo!   2017
Sunnyvale, CA

- Implemented native video on web for syndicated ad serving
- Built a lightweight cross-browser video player with impression firing functionality
- Designed new client-side ad serving logic to reduce time to initial ad impression by a minimum of 50ms
- Integrated IAB and dynamic third party viewability rules for accurate impression metrics

Software Engineering – iOS, Rave Media   2016
Waterloo, ON

- Integrated AirPlay and multimedia controls into the video streaming platform
- Developed picture-in-picture functionality that responds to user-interaction and video lifecycle changes
- Led the team that created an iMessage extension to provide real-time streaming media synchronization

PROJECTS

BusStop   *iOS App - Swift, Objective-C*

- Developed an app that provides real-time updates on GRT transit times
- Integrated a widget app extension by modularizing existing codebase into a custom iOS Framework
- Worked with another developer to make BusStop cross-platform

BringMeBack   *iOS App - Swift, Objective-C*

- Developed an app for offline map directions at NHacks 2016
- Utilized Twilio API, Google Maps API, and Core Location for text message based communication
- Won the award for "Best Use of AWS" and "Most Promising Future Startup"

Choral   *iOS App - Swift, Objective-C, C*

- Created an app that acts as a pseudo hearing aid to significantly reduce stuttering
- Developed a voice playback system with sound distortion and low latency which mimics the choral effect

ACTIVITIES

Graphic Designer, Burnaby North Yearbook Team   2014-2015
- Won the Most Outstanding High School Yearbook Award from the American Scholastic Press Association

Graphic Designer, Viking View   2012-2014
- Oversaw all graphic design for the student newspaper

EDUCATION

Bachelor of Computer Science, Honours   2015-2020
University of Waterloo, Waterloo, ON

AWARDS

National AP Scholar   2013-2015
Duke of Edinburgh Silver Award   2014