HARRY LIU

harryliu.io | harry.liu@uwaterloo.ca | (604) 379 1832

TECHNOLOGIES

Swift, Objective-C, Scala, Java, C, Python, Scheme, Git, HTML, CSS, JavaScript

WORK EXPERIENCE

Software Engineering - iOS, WeMesh   **2016**
Kitchener, ON

- Led the team that developed a separate iMessage app for syncing videos within an iMessage conversation
- Implemented AirPlay, multimedia control, and picture in picture functionality
- Focused on good design principles such as protocol-oriented programming and fail fast programming

Volunteer Computer Builder, FreeGeek Vancouver   **2012-2014**
Vancouver, BC

- Tested computer parts and assembled computers using donated components
- Handled bulk installation of Linux on completed computers

PROJECTS

BusStop   *iOS App - Swift, Objective-C, Git*

- Developed an app that provides real-time updates on GRT transit times
- Integrated the app with our GRT Unofficial Live API
- Featured on CBC News and is available on the app store

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

- Created an app to significantly reduce stuttering by acting as pseudo hearing aid
- Developed a voice playback system with slight distortion and latency which mimics the choral effect
- Utilized underlying C API for the required low latency playback

harryliu.io   *Website - HTML, CSS, JavaScript, JQuery*

- Focused on responsive design and minimalistic UI
- Utilized mobile first thinking principles to create a fast mobile experience

ACTIVITIES

Graphic Designer and Grads Editor, Burnaby North Yearbook Team   **2014-2015**

- Won Most Outstanding High School Yearbook from the American Scholastic Press Association

Lead Graphic Designer, Viking View   **2012-2014**
- Led all graphic design and layout work for the student newspaper

EDUCATION

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

- Selected courses: Designing Functional Programs (Advanced), Elementary Algorithm Design and Data (Advanced)

AWARDS

National AP Scholar   **2013-2015**
Duke of Edinburgh Silver Award   **2014**
BC Powerlifting Association Record Holder   **2014**