Zhilan Zhou

104 Shadowood Dr., Apt V
Chapel Hill, NC, 27514
919-448-5716
zzl@cs.unc.edu

EDUCATION

The University of North Carolina at Chapel Hill   **Chapel Hill, NC, Aug. 2017 - Now**
Ph.D in Computer Science
Course work:
Files and Databases, Operating Systems, Digital Logic, Scientific Computation 1, Algorithm Analysis, User Interface Design, Programming Language Concept, Computer Vision, etc.

The University of North Carolina at Chapel Hill   **Chapel Hill, NC, Aug. 2014 - May. 2017**
B.S. with highest distinction in Computer Science, Minor in Mathematics and Japanese, GPA: 3.93
Course work:
Computer Organization, Models of Languages and Computation, Computer Security, Algorithms and Algorithm Analysis, Artificial Intelligence, Internet Services and Protocols, Mentored Research, Modern Web Programming, Combinatorial Mathematics, Intro to Graphic Design, Bioalgorithm, etc.

WORK HISTORY

Academic Experience

Research Assistant   **Chapel Hill, NC, Aug. - Dec. 2019**
Designed and developed an interactive planning cross-check tool for dosimetrists using during treatment planning for improving patient safety in the Department of Radiation Oncology in UNC Hospital. Worked with Professor Lukasz Mazur.

Teaching Assistant   **Chapel Hill, NC, Jan. - May 2019**
Research Assistant   **Chapel Hill, NC, Aug. 2017 - Dec. 2018**
Led a project on exploring and creating a UI transformation system to afford interactions on multiple devices while sharing a unified runtime backend, under the NSF project on UI Virtualization with Professor Don Porter. Based on the earlier project UIWear, studied more and 100 smartwatch apps, built a UI adaption pairing database.

Industry Experience

User interface redesign for NCHealthinfo.org   **Chapel Hill, NC, Jan. - May 2018**
Led a four-people group project on redesigning the UI/UX for an existing website which belongs to UNC Health Info Library. Analyzed the whole site along with Google Analytics Data. Created Personas for the website, reorganized the structure from original sitemap and advised a new visual design.

UNC Internal Medicine Exam Room App - IMERA   **Chapel Hill, NC, Jan. - May 2018**
Participated in a four-people group to help managing rooms real time for the UNC Internal Medicine Clinic. Started from designing the prototype, finally finished the whole implementation and handed the product to clients with documents.

Software Engineer Intern   **EAVision, CA, May - Aug. 2016**
Took the charge of developing the globalization and localization feature of the UAV control software UAVision on Windows platform with C#. Worked with the development group to complete a stable FTP client and server system between the UAV (running Ubuntu) and remote-control end (running Windows), mainly completed the whole C++ program on Linux.

Android Software Engineer Intern   **Cheetah Mobile Inc., Beijing, China, Jul. - Aug. 2015**
Collaborated with the development team to modify the screen saver animation interface on the Android app Clean Master. Utilized Java and Android Studio to improve the interactive part of user interface to meet the demand from UI design group.

PROJECTS

Interactive Image Description for RGBD videos   **Chapel Hill, NC, Aug. 2015 - May 2016**

Participated in a four-people group with Professor Tamara Berg, as an Undergraduate Research in UNC. Recognized images with category predictions using Caffe in MATLAB, along with other models like Long's FCN segmentation, adapted the Microsoft SDK in C++ to collected data from Kinect. Established an alpha site for the human-tagged database of indoor images.

IBM Bluemix IoT Design Challenge   **Chapel Hill, NC, Nov. - Dec. 2014**

High-Value Asset Tracking using Bluetooth Low Energy Beacons in Hospital Environment, Team of four.

PUBLICATIONS

A Survey of Patterns for Adapting Smartphone App UIs to Smartwatches (Submitted), CHI, Apr. 2020

SKILLS

Programming Languages

Python, Java, C++, C#, JavaScript, WordPress, PHP, Html, CSS

Operating System

Windows, macOS, iOS, Android, Linux

Tools

Photoshop, AutoCAD, Illustrator, InDesign, Sketch, Audition

Languages

Mandarin, English, Japanese