Zhilan ZHOU

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EDUCATION

The University of North Carolina at Chapel Hill, M.S. in Computer Science

Aug. 2017 - Dec. 2018

Course work:

Files and Databases, Operating Systems, Digital Logic, Scientific Computation I, Algorithm Analysis, User Interface Design, Programming Language Concept, Computer Vision, etc.

The University of North Carolina at Chapel Hill

B.S. in Computer Science, Minor in Mathematics and Japanese, GPA: 3.91

Aug. 2014 - May. 2017

Course work:

Foundation of Programming, Discrete Structures, ACM Programming Competition Practice, Data Structures, Principles of Biology, Computer Organization, Models of Languages and Computation, Introduction to Computer Security, Algorithms and Algorithm Analysis, Artificial Intelligence, Internet Services and Protocols, Mentored Research, Modern Web Programming, Play Analysis, World Regional Geography, Combinatorial Mathematics, Intro to Graphic Design, Bioalgorithm, etc.

EXPERIENCE

Research Assistant, UNC   Aug. 2017 - now
- Lead 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 prior project UIWear, aimed at extending it to an automatically UI transferring generation system from phone to wearable devices.

Research Assistant, UNC   Sept. - Dec. 2016
- Participated in the Research Project: The Founder Strains of the Collaborative Cross Express a Complex Combination of Advantageous and Deleterious Traits for Male Reproduction.
- Helped the maintenance of the Histology Database for deep learning classification of cells, including modifying code and adding labels to improve the performance of the classifier.

Intern in EAVision, California   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 UAV (running Ubuntu) and remote-control end (running Windows), mainly completed the whole C++ program on Linux.

Intern in 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.

ACADEMIC PROJECTS

User interface redesign for NCHealthinfo.org Jan. 2018 - 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 Jan. 2018 - 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.

Interactive Image Description for RGBD videos Aug. 2015 - May 2016
- Participated in a four-people group with tutor Tamara Berg, 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, got A for the course.

Captcha Crack Software Design May 2014 -
- Led team of 3 to set the technical implementation scheme, Undergraduate Sci &Tech Innovation Program in NJUST.

ACTIVITIES

IBM Bluemix IoT Design Challenge
- High-Value Asset Tracking using Bluetooth Low Energy Beacons in Hospital Environment, Team of four Chapel Hill, NC, Nov. - Dec. 2014

ACM Competition
 Team was ranked #31 in Mid-Atlantic Regional Contest USA, Nov. 2014

Bronze Prize：National Biology Olympic Competition China, 2011

TECHNICAL SKILLS

Programming Languages:
 Visual C++, **J**ava, **C**++, **C**#, **P**ython, **J**avaScript, **W**ordPress, **P**HP, **H**tml, **C**SS

Operating System:
 Windows, **O**S X, **i**OS, **A**ndroid, **L**inux

Tools:
 Page, **K**eynote, **P**hotoshop, **A**utoCAD, **I**llustrator, **I**nDesign, **S**ketch

Languages:
 Mandarin, **E**nglish, **J**apanese