Minh Hoang

⌂ minhhoangtcu.github.io ✉ minh.hoang@tcu.edu ⌾ minhhoangtcu 📱 (817) 925-2335

📖 education

Texas Christian University
B.S. Computer Science
Mathematics minor
GPA: 3.9, May 2018

☰ skills

Languages: Java (proficient)
Swift, C, Python, R, JavaScript
HTML/CSS, C#

Web Application Tools:
Bootstrap, MySQL, Node.js
d3.js, Angular, Jekyll

🏆 awards

George Fassett SERC Scholars: Awarded as one of two students with excellent undergraduate research

Internship Scholarship Program: Awarded two times for exceptional summer internships

Spotlighted on Rice University blog during HackRice 2016

👥 leadership

Vietnamese Student Association - *Logistic Chair*
Programmed and oversaw a cultural show with $7000 in funding for 3 months

🔧 projects

Ribbit (Feb 2016 – Present)
- Revise and improve an iOS Hearing Aid research by implementing Partitions of Unity to smooth out transitions between processed frames
- Construct a real-time implementation converting and modifying recordings back and forth from time into frequency domain with Fast Fourier Transform

Inspire (Sep 2016 – Present)
- Develop an iOS application that collects photos and generates a list of related songs to inspire photographers on the field
- Employ Clarifai API to recognize photos' moods to suggest songs, as well as Flickr, and 500px API to request photographs

Match (May 2015 – May 2016)
- Formulated an algorithm based on KNN for a recommendation system to weight people's similarities based on their characteristics and expectations
- Initiated the project, presented a poster at school's research symposium, and pitched the idea at NTASC

Strength Builder (Mar 2016)
- Developed a system that used Kinect to track stroke victims' movements and visualize their rehabilitation progresses on both a website and an Android app

💼 work

Texas Christian University   Aug 2015 - Present
Research Assistant, Wireless Technology Lab
- Reduce the Gibbs effect and the artifacts caused by spectral leakages by manipulating sound buffers generated from FFT with special windows
- Co-author a research paper on digital signal processing

Hanoi Telecom Corporation   May 2016 – Aug 2016
Mobile Developer, HTE Technology Group
- Cooperated with outsourced developers to build a social media application based on voice messages on both Android and iOS devices
- Reduced real time sound processing delay of a mobile application by 28%

Hanoi Telecom Corporation   May 2015 - Aug 2015
IT Intern, HTS Technology Group
- Created monthly up to 10 mobile utilities usage visualizations with d3.js
- Coordinated a team of 32 interns to survey 10,000 mobile teenagers from various schools and universities in 4 provinces around Hanoi