

# KAI-WEI 'Konrad' WANG

14447 White Pine Ridge Ln, Chesterfield, MO. 63017 | Tel : 314 915 3780 | Email : [konradwang@gatech.edu](mailto:konradwang@gatech.edu) | US P.R. holder

## Education

Atlanta, GA

08/2016 – present

### GEORGIA INSTITUTE OF TECHNOLOGY

- Bachelor of Science in Computer Science (Expected Graduation: December 2019)
- Threads: People and Intelligence
- Human Computer Interactions, Graphics, UI/UX, Data Visualization, Machine Learning

## Experience

Beijing, China

05/2018 – 08/2018

### Blued international, Software Development Intern

*Web development team: Location-based social search application*

- Developed modular front-end and back-end applications using HTML, CSS, ReactJS, AJAX, NodeJS and deployed working application for pride month in June 2018 with 40million DAU
- Worked closely with members of the product development team to achieve the best user experience while writing modular and scalable code
- Worked using Git and deployed with GitLab (CI/CD continuous integration); coordinated with Agile process

Atlanta, GA

11/2017 – 05/2018

### The Home Depot, Software Engineer Intern

*Artificial Intelligence & Exploratory Team: Visually Similar object detection tool*

08/2018 – present

- Built image classifiers with CNN using TensorFlow and categorized Homedepot's product image database
- Implementing machine learning algorithms such as KNN, SVM and pretrained neural networks with Keras VGG16 on ImageNet for image classifications
- Improved object detection accuracy through implementing triplet loss on pretrained models for different product categories

## Research

Atlanta, GA

08/2018 - present

### Georgia Tech Interactive Media Technology, Research Assistant

*Ambient Alerting (Aware Home), Supervisor: Prof. Brian Jones*

- Explored applications of intelligent voice assistant with python and AWS lambda
- Developed applications to deliver notifications of alerts, status, and setup with Android Studio and SQL
- Deployed sensors around home with Arduino and recorded user activity for research

Atlanta, GA

08/2017 – present

### Georgia Tech Augmented Environments Lab, UI/UX developer

*Community AR design (Invisible Cities), Supervisor: Dr. Jay Bolter*

- Produced AR experience in which multiple users can place AR entities in physical space in real-time which are programmed through JavaScript, Unity and C#
- Developed front-end design and performed UI/UX research

Atlanta, GA

10/2016 – 08/2017

### Georgia Tech STIP institute, Research Assistant

*STEM Research Communities & Knowledge Transfer, Supervisor: Dr. Jan Youtie & Dr. Alan Porter*

- Used longitudinal, cross-sectional, and comparative research designs through Vantage Point to generate analyses of large samples of research literature in 'STEM-ED' and 'Cog-Sci' research communities.
- Designed and implanted applications that scrape through Web of Science database with Python.

## Projects

<https://github.com/konrad0707>

Atlanta, GA

08/2017

### Homeless Shelter Finder

- Led a team of 5 students to compete in a semester long project competition to build a mobile app locating homeless shelters for the homeless using Android studio and firebase

Atlanta, GA

08/2017

### Life Organizer app

- An all-in-one app for students to manage work-life balance, includes campus event schedule, class schedule and student finance with Android Studio and Firebase

Taipei, Taiwan

04/2016

### IB Physics App

- Designed and co-owned android application for revising IB physics, that allows users to browse through syllabus content with detailed notes
- 1000+ total installs and 4.8 average rating, also in affiliation with ibphysics.com which has 158000+ visits

## Skills

**Software:**

Other: Adobe creative suite, Sony Vegas pro 13.0, Android studio, Vantage Point 10.0, LaTeX, Processing

**Development:**

Proficient: HTML/CSS, Java, Python; Comfortable: JavaScript, C, C# (unity), SQL, Assembly, Arduino

**Misc.:**

Languages: English – native, Chinese – native, Spanish – elementary

Leadership: GT Xi Kappa Fraternity (Social Chair), Taiwanese American Student Association (Vice President)