AUSTIN WANG

EDUCATION

University of North Carolina at Chapel Hill August 2016 - May 2020
B.S. in Computer Science & Mathematics
GPA: 3.5

Relevant Coursework:

- Data Structures, Algorithms, 2D Graphics, Databases, Compilers, Operating Systems, Real-time Systems, Parallel Systems, Computer Security, Cryptography, Smart and Connected Systems
- Calculus, Differential Equations, Number Theory, Linear Algebra, Probability, Real Analysis, Topology, Algebraic Structures

PROFESSIONAL EXPERIENCE

Amazon June 2018 - August 2018
SDE Intern *Seattle, WA*

- Creating internal tooling and UI for reconciliation of incorrect or broken meta-data entities
- Generalizing the tool to allow for generic script sources, making it useful for other teams in the organization
- Integrating granular access control of the service to other teams

UNC-CH Department of Computer Science January 2018 - June 2018
Learning Assistant for the Emerging Scholars Program *Chapel Hill, NC*

- Leading lessons on various topics in CS, ranging from algorithms to cryptography
- Navigating first/second year college students through the CS program and curriculum

RESEARCH

UNC-CH Department of Computer Science May 2017 - Present
Undergraduate Research Assistant *Chapel Hill, NC*

- Exploiting weaknesses and improving data privacy of commercial IOT devices
- Generating data-sets on energy usage to study the relationship between energy use of household devices
- Creating VR simulations to conduct user studies on human response to robot appearance and movement
- Deriving data-driven models for movement of robots and autonomous vehicles in a pedestrian crowd

Publications:

- A. Bera, T. Randhavane, E. Kubin, **A. Wang**, K. Gray and D. Manocha, "The Socially Invisible Robot Navigation in the Social World Using Robot Entitativity," *2018 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, Madrid, 2018, pp. 4468-4475.
- A. Bera, T. Randhavane, **A. Wang**, D. Manocha, E. Kubin, K. Gray, "Classifying Group Emotions for Socially-Aware Autonomous Vehicle Navigation," *The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, 2018, pp. 1039-1047.
- A. Bera, T. Randhavane, E. Kubin, **A. Wang**, K. Gray and D. Manocha, "Pedestrian Dominance Modeling for Socially-Aware Robot Navigation," *2019 IEEE International Conference on Robotics and Automation (ICRA)*, Montreal, 2019.
- **A. Wang**, and S. Nirjon, "A False Sense of Home Security - Exposing the Vulnerability in Away Mode of Smart Plugs," *International Workshop on Mobile and Pervasive Internet of Things (PerIoT '19)*, 6 pg, Kyoto, March 2019.

LEADERSHIP

CS+Social Good at UNC Chapel Hill September 2017 - Present
Co-Founder & Technology Chair *Chapel Hill, NC*

- Developing projects and services for community groups and on-campus organizations
- Mentoring the group's project managers and software developers
- Designing graphic assets such as the logo, banner images, and promotional images

HackNC Feb. 2017 - Present
Graphic Design Co-Lead / Development Lead *Chapel Hill, NC*

- Developing front-end and back-end for the hackathon's website
- Designing graphic assets for the website, social media, t-shirts, prizes, etc.
- Creating tools for registration, judging, mentorship, communication, etc.

RELEVANT SKILLS

Languages	Java, C#, JavaScript, HTML, CSS, Python, C, C++, SQL
Technologies	Linux, Vim, Git, Github, DynamoDB, Unity, VR, Photoshop, Illustrator
Natural Languages	English (Native), Mandarin (Bilingual), French (Limited)