

AUSTIN WANG

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EDUCATION

University of North Carolina at Chapel Hill

B.S. in Computer Science & Mathematics – GPA: 3.5

August 2016 - May 2020

EXPERIENCE

Amazon

SDE Intern - Prime Video Download Services

May 2019 - August 2019

- Designed back-end service on **AWS Lambda** for deleting downloaded videos upon logout and device removal *Seattle, WA*
- Adapted existing modules to work within AWS Lambda including **DynamoDB** calls and message decryption

SDE Intern - Prime Video Catalog Metadata

June 2018 - August 2018

- Created internal tooling and UI for reconciliation of incorrect metadata *Seattle, WA*
- Generalized the tool to allow for generic script sources, making it useful for other teams in the org
- Integrated granular access control so that other teams could run specific scripts themselves

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 to study the relationship on 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

- Designing and developing projects for local non-profits and student organizations
- Mentoring the group's project managers and software developers

HackNC

Feb. 2017 - Present

Graphic Design Co-Lead / Development Lead

Chapel Hill, NC

- Developing full-stack 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.

PROJECTS

MemeTrades.com

February 2017

JavaScript, HTML, CSS, Python (Flask), MongoDB

- Created mock market for text-based strings that reached **3000+ users**
- Designed front-end UI/UX such as stock visualization and trend graphs
- Integrated **automated image moderation** for user-submitted content

RELEVANT SKILLS

Languages

Java, JavaScript, HTML, CSS, Python, C, C++, C, SQL

Technologies

Linux, Vim, Git, Github, AWS Lambda, AWS SQS, AWS SNS, AWS DynamoDB

Technologies (cont.)

Unity, VR, Photoshop, Illustrator, Lightroom