AUSTIN WANG

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EDUCATION

University of North Carolina at Chapel Hill

· M.S. in Computer Science — Aug 2020 - May 2021

· B.S. in Computer Science & Mathematics — Aug 2016 - May 2020

SKILLS

Languages Java, JavaScript, HTML, CSS, React, Python, SQL, C, C++, C#

Technologies Linux, Vim, Git, AWS, Unity, VR

EXPERIENCE

Amazon — May 2019 - Aug 2019

SDE Intern - Amazon Prime Video Download Services — *Seattle, WA*

· Designed and implemented back-end service on **AWS Lambda** for deleting downloaded videos upon logout and device removal

· Adapted existing modules to work within AWS Lambda including **DynamoDB** calls and **SNS message decryption**

Amazon — June 2018 - Aug 2018

SDE Intern - Amazon Prime Video Catalog Metadata — *Seattle, WA*

· Created **Flask web app** for reconciliation of incorrect metadata

· Integrated granular access control so other teams could run approved scripts, reducing operational friction

UNC-CH Department of Computer Science — Jan 2018 - June 2018

Learning Assistant for the Emerging Scholars Program — *Chapel Hill, NC*

· Taught lessons on various topics in CS, ranging from algorithms to cryptography

· Navigated first/second year college students through the CS program and curriculum

RESEARCH

UNC-CH Department of Computer Science — May 2017 - May 2019

Undergraduate Research Assistant — *Chapel Hill, NC*

· Exploited security weaknesses to investigate data privacy of commercial **IOT devices**

· Generated data-sets on energy usage to explore relationships between energy use and human activity

· Created **VR simulations** to conduct user studies on human response to robot appearance and movement

· Derived data-driven models for movement of robots and autonomous vehicles in a pedestrian crowd

Publications:

· **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.

· 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. 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, "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.

LEADERSHIP

CS+Social Good at UNC Chapel Hill — Sept 2017 - Present

Co-Founder / President (2020) / Technology Chair (2018 - 2020) — *Chapel Hill, NC*

· Design and develop projects for local non-profits and student organizations

· Manage **90+ other students** and mentor them in project management and software development

HackNC — Feb 2017 - Present

Senior Advisor (2019-2020) / Development Lead (2018) / Graphic Design Co-Lead (2017) — *Chapel Hill, NC*

· Developed **full-stack** for the hackathon's website and various registration, judging, mentorship, and communication tools

· Designed graphic assets for the website, social media, t-shirts, prizes, etc.

PROJECTS

Carolina Cupboard Inventory — Jan 2019 - Present

JavaScript, HTML, CSS, Node, PostgreSQL

· Created a full-stack inventory management web app for a student-run food pantry

· Integrated university authentication service and implemented access-control on admin services

· Developed cart and checkout system for visitors to pre-order items online