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 - 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 message decryption

Amazon   June 2018 - Aug 2018
SDE Intern - Prime Video Catalog Metadata   *Seattle, WA*
· Created internal tooling and UI for reconciliation of incorrect metadata using **Flask, JavaScript, HTML/CSS**
· Integrated granular access control so that other teams could run specific scripts themselves

UNC-CH Department of Computer Science   Jan 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 - May 2019
Undergraduate Research Assistant   *Chapel Hill, NC*
· Exploited weaknesses to improve data privacy of commercial **IOT devices**
· Generated data-sets to study the relationship on energy use of household devices
· 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 / Technology Chair   *Chapel Hill, NC*
· Leading a tech team that **designs and develops projects for local non-profits and student organizations**
· Mentoring other students in project management and technical skills

HackNC   Feb 2017 - Present
Senior Advisor / Development Lead / Graphic Design Co-Lead   *Chapel Hill, NC*
· **Developing full-stack** for the hackathon's website and various registration, judging, mentorship, and communication tools
· Designing graphic assets for the website, social media, t-shirts, prizes, etc.

PROJECTS

MemeTrades.com   Feb 2017 - Mar 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