Jun Wang

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Education

University of Washington **Sep. 2021 – Jun. 2024 (Expected)**
B.S. in Computer Science (with honors), Advised by Prof. Jon Froehlich Seattle, WA
GPA: 3.91/4.00
- **Skills**: Java, Python, C/C++, MySQL, TypeScript/JavaScript; PyTorch, OpenCV, Linux, Git
- **Selected Coursework**: Deep Learning, Computer Vision, Data Structures, Algorithms, Database System, Probability

Technical Experience

Makeability Lab (Planning submission to CHI 2024) **Nov. 2022 – Present**
Undergraduate Researcher Seattle, WA
- Designed and evaluated a wearable AR system that can resolve ambiguity stemming from pronoun use in everyday speech.
- Identified commonly used ambiguous phrases in human-to-human speech through literature review.
- Brainstormed technical solutions for multimodal integration.
- Constructed user study scenarios and conducted reflexive thematic coding on qualitative data.

AI Alignment at UW **Apr. 2023 – Jun. 2023**
Undergraduate Researcher Seattle, WA
- Focus on extensions to, applications of, and analysis of the paper "Discovering Latent Knowledge in Language Models Without Supervision".
- Explore questions such as "How does the language model's output change depending on the simulacra/paraphrase" and "Does the language model condition its world model on some counterfactuals written in the text".

Advanced Robotics at UW (2022 RoboMaster NA Champions) **Jan. 2022 – Jan. 2023**
Software Engineer Seattle, WA
- Implemented message loggings for referee data (competition result, real-time data, robot id, warning).
- Parsed depth camera data from RealSense camera to compute the 3D position of each target plate relative to the camera.
- Evaluated competition requirements and collaborated across subteams to plan an end-to-end system.

HD Education **Dec. 2021 – Jun. 2022**
Computer Science Tutor Remote
- Prepared and taught weekly lessons (∼2 hours) about procedural programming concepts, basic control structures, and fundamental data structures in Java to a class of ∼20 people.

Stanford University **Oct. 2019 – Feb. 2020**
Research Assistant Remote
- Assisted in the research project entitled "Personalized Recommender Systems: From Collaborative Filtering to Deep Learning" by developing algorithms for recommender systems (e.g., collaborative filtering, matrix factorization, DNN).

Projects

Swift and Smart: A New Paradigm for Real-Time Garbage Segmentation **Apr. 2023 – Jun. 2023**
- Proposed a real-time semantic segmentation solution featuring automatic image annotations with Segment Anything Model and Grounding DINO object detector and model trainings with MobileNetV3, DeepLabv3, and ResNet50 models.
- Best model combining MobileNetV3 and DeepLabv3 models attained an MIoU score of 0.7865 and outperforms the baseline model (ResNet50 + FCN) regarding average precision (0.8112), recall (0.8147), and FPS (218.93).
- Validated the viability of real-time garbage segmentation using models that balance computational efficiency and accuracy and discussed current limitations and future works.

Campus Map **Jul. 2022 – Aug. 2022**
- Utilizes Dijkstra's algorithm to find the shortest path between two buildings on campus.
- Made with model-view-controller pattern consisting of various modular components with a thorough test suite, including: generic graph class, generic campus map class, back-end java spark server, front-end React components.

Leadership & Volunteering Experience

Meta **Aug. 2022 – Oct. 2022**
Meta Above & Beyond Computer Science (ABCS) Program Fellow Remote
- Collaborated with peers and Meta software engineers in a 10-week workshop series to enhance coding interview skills.

TechTogether Seattle **Jun. 2022 – Aug. 2022**
Programming General Member Seattle, WA
- Brainstormed coding challenges and workshops for a hackathon targeting gender-marginalized groups (∼500 people) and recruited ∼50 volunteers, mentors, and judges.