Xixuan (Julie) Liu

xl99@stanford.edu · Stanford, California · linkedin.com/in/xixuan-julie-liu

EDUCATION

Stanford University, Stanford, CA   Sep 2021 - Jun 2023
Master's degree in Computer Science
Anticipated coursework: Analysis of Algorithms, The Modern Internet, Data Management, Deep Learning

New York University Abu Dhabi, Abu Dhabi   Aug 2017 - May 2021
Bachelor of Science in Computer Science; GPA 3.9/4.0
Selected coursework: Computer System Organization, Operating Systems, Software Engineering, Machine Learning

SKILLS

Programming Languages: Experienced in Python, Java, C++, C, R, JavaScript, PHP
Tools: Proficient with Git, MATLAB, HTML, CSS, SQL, MongDB, Flask, TensorFlow, Pytorch

PROJECT: WEB APP DEVELOPMENT

Ecommerce Site "Nile", New York, NY
Leading Developer in Team of 3   Mar 2021 – May 2021
- Built web app, using Python, Flask and PyMongo for backend, and HTML, CSS, and Javascript for frontend
- Created intuitive UX; allowed both sellers and buyers to interact with data from MongoDB database effortlessly
- Wrote features such as ranking by popularity and search functions (by listing title and/or seller) to for easier shopping

Real Time Trading Platform, Abu Dhabi
Co-Developer in Team of 2   Apr 2018 - May 2018
- Developed a simulator of the Bloomberg Terminal for school's investment competition; had 50+ initial users
- Built databases and interfaces using PyGame for portfolio page, info searching, and trading action selection
- Realized data and news extraction, financial indexes calculation, and data visualization to assist with stock trading

RESEARCH: AI & MACHINE LEARNING & DATA SCIENCE

NYU Multimedia and Visual Computing Lab, Abu Dhabi
Research Assistant (Computer Vision & Assistive Technology)   Jun 2020 – Aug 2021
- Wrote research proposals for assistive virtual touch screen, to augment perceptive power of the visually impaired
- Built a novel computer vision model for point-based object detection, paired with a hand detection algorithm
- Authored paper accepted to ICCV 2021, won Quwa 2021 forum award; co-authored paper accepted to ECCV 2020

Data Science and AI Lab, Abu Dhabi
Capstone Research Student   Feb 2020 – May 2021
- Developed protocols to study human-bot cooperation in group settings using the Public Goods Game
- Designed S++ AI algorithm that is capable of making contributions and punishing/rewarding group members
- Implemented interfaces for online experiment using JavaScript and PHP; collected data from 640 participants

Modern Microprocessors Architecture Lab, Abu Dhabi
Research Intern (Cybersecurity & Machine Learning)   May 2019 – Aug 2019
- Explored potentials ways to backdoor attack on image recognition neural networks, using social media app filters
- Experimented on subtle triggers for misclassification and trigger suppression using fuzzing and majority voting
- Presented research findings in CSAW HACKML competition; ranked as the only undergraduate global top 3

WORK EXPERIENCE: TECH CONSULTING

VENTURE SOUQ Free Zone Company, Dubai
Venture Capital Intern & Tech Development Intern   Feb 2019 - May 2019
- Designed company web platform to manage funding deals and serve over 800 angel investors
- Sourced and screened potential tech startups in the MENA region weekly; provided market research & analysis

Ernst & Young Global Limited, Beijing
Tech Consulting Intern   Jul 2018 - Aug 2018
- Tested blockchain-based monitoring system and website for China's Free Zone used in CIIE 2018
- Proposed and wrote a report on architecture for blockchain applications in China's e-commerce industry