CHRISTOPHER HO

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in linkedin.com/in/chriswxho

EXPERIENCE

Research Assistant @ UC Irvine

Machine Learning, Computational Chemistry

September 2020 — Present

Irvine, CA

- Created deep architectures to model atmospheric experiments up to 350× faster than the current SoTA computation model
- Researching MCMC sampling and optimization methods to quickly determine chemicals' physical properties

Machine Learning Engineer Intern @ Stream Engine

Machine Learning, Data Science

September 2020 — Present Irvine, CA

- Built regression models using time-series data to predict viewer statistics for broadcasts, livestreams, and social media
- Implemented custom metrics for brand classification using OpenCV to quantify value of advertisements in streams
- Optimized scripts for data collection and preprocessing from social media sites, minimizing requests and overhead time

Software Engineer Intern @ Apple

Full-Stack Development

June — September 2020 Santa Clara, CA

- Developed a recommendation system in Python to suggest workflow apps and actions based on popularity in user data
- Revamped Claris Connect UI from sketches using JS, React and Node.js libraries, improving presentation and usability
- Coordinated with team members using Agile practices to distribute Jira tasks and push bi-weekly app updates

Tournament Director @ American Red Cross Charity Tournament

September 2016 — September 2018

Union City, CA

Management, Leadership

- Planned, publicized, and managed tournament desk during a one-day badminton tournament for 3 years
- Raised \$2,000 in 2016, \$2,500 in 2017, \$6,000 in 2018 for the American Red Cross

TECHNICAL SKILLS

Programming Languages: Python, C/C++, JavaScript, MySQL, Java, LATEX

Environments and Libraries: Git, Jupyter, sklearn, TensorFlow, PyTorch, OpenCV, React.js, Cypress

Verbal Languages: Native English, Conversational Cantonese Chinese, Mandarin Chinese

EDUCATION

University of California, Irvine

B.S. Computer Science and Engineering, Minor in Statistics

GPA: 3.831/4.0

September 2018 – June 2022

Irvine, CA

Relevant Coursework: Statistical Machine Learning, Deep Learning, Computational Vision, Probability and Statistics, Artificial Intelligence, Data Structures, Algorithms, Database Management, Quantum Computing

PROJECTS

Using RGB Videos to Predict ECG • Python, TensorFlow, OpenCV

- Predicted a patient's ECG waveform, given an RGB video of their face for AICure's Kaggle competition and CS 172B
- Employed several preprocessing techniques using OpenCV to focus training on different facial features in video data
- Trained various CNN architectures from ImageNet computer vision models to recognize imperceptible facial changes

TSTimeTable • Python, MySQL, React

- Scraped TournamentSoftware site for match information, including match times, player names, and club affiliations
- Designed relational databases using MySQL to store relations between information, using Redis for faster accesses
- Implemented UI components in React that respond to real-time updates on TournamentSoftware through Flask API