


Christopher Ho

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EXPERIENCE

Research Assistant, Shiraiwa Group @ UC Irvine

September 2020 — June 2021

Machine Learning, Computational Chemistry

Irvine, CA

- Researched and optimized computational experiments for atmospheric chemical reactions for Prof. Manabu Shiraiwa
- Created deep architectures to model concentrations of chemicals 350× faster than the current SoTA computation model
- Applied Bayesian inference methods to approximate values for chemicals' physical properties given previous lab data

Machine Learning Engineer Intern @ Stream Engine

September 2020 — June 2021

Machine Learning, Full-Stack Development

Irvine, CA

- Built regression models to predict time-series audience statistics for livestream events, beating industry competitors
- Parallelized collection pipelines for streaming analytics to automate data ingestion for hundreds of concurrent streams

Software Engineer Intern @ Apple

June — September 2020

Full-Stack Development

Santa Clara, CA

- Developed a recommendation system to suggest workflow apps and actions based on previously collected data
- Revamped the Claris Connect UI from design sketches using JavaScript libraries, improving presentation and usability

Tournament Director @ American Red Cross Charity Tournament

September 2016 — September 2018

Management, Leadership

Union City, CA

- 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++, Java, SQL, JavaScript, \LaTeX

Environments and Libraries: Git, Jupyter, NumPy, sklearn, TensorFlow, PyTorch, OpenCV

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

EDUCATION

University of California, Irvine

Irvine, CA

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

September 2018 – June 2022

GPA: 3.854/4.0

Relevant Coursework: Deep Learning, Image Understanding, Computational Vision, Medical Imaging, Machine Learning, Probability and Statistics, Data Structures, Algorithms, Database Management

PROJECTS

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

- Predicted a patient's ECG waveform given an RGB video of their face, focusing on minute physiological differences
- Applied transfer learning from ImageNet computer vision models with several image pre-processing techniques

TSTimeTable • Python, MySQL, React

- Scraped TournamentSoftware site for information on tournament matches and added various filters for coaches' use
- Supported real-time updates for match logistics by connecting MySQL database to React display with Flask API backend