

ERIC CHOU JR.

(510)366-6095 ◇ ericchoujr777@gmail.com ◇ www.linkedin.com/in/eric-chou-b2814717a/ ◇ www.github.com/babychoujr

EDUCATION

University of California Irvine

Bachelor of Science in Computer Science

Minor: Statistics

Relevant Coursework: Data Structures, Algorithms, Computer System Architecture, Operating Systems, Systems Design, Information Retrieval, Computer Networks, Artificial Intelligence, Machine Learning

Expected June, 2021

Irvine, CA

SKILLS & INTERESTS

Languages

Python, C++/C, Java, SQL, NoSQL, R, Verilog, HTML, Javascript

Libraries and Frameworks

Keras, PyTorch, Apache Spark, Tensorflow, Scikit-learn, Selenium, React

Environments/Services

Windows, Linux, AWS, IBM Watson

Interests

MMA, Taekwondo, Baseball, Traveling

EXPERIENCE

U.S. Department of State

Machine Learning Research Associate

Dec 2020 - Present

CA

- Deploy a realistic key phrase identification model used to predict classification of large sets of texts and classifying them into subjects with the ability to take into account specific words and phrases of interest that needs to be flagged.
- Researched and processed data used to train the classification model following a specific criteria related to national interests.

University of California, Irvine

Undergraduate Learning Assistant

Sept 2020 - Dec 2020

Irvine, CA

- Enhancing active learning through collaborative, and interactive small group instruction with students.
- Mentoring students in office hours and in lecture utilizing metacognition and question redirecting techniques.

Progressive Kids

Programming Instructor

Jun 2019 - Aug 2019

Newark, CA

- Organized and guided the instruction of programming fundamentals in Python, Java, and C++ for over 120 students.
- Collaborated with other instructors to improve instructional material to provide a better learning experience.
- Guided students to design a Tic-Tac-Toe game with graphical user interface in Python.

PROJECTS

Checkers Artificial Intelligence Bot

Nov 2020 - Dec 2020

- Python-based bot utilizing a simple Monte Carlo Tree Search with a selection stage adopting a UCB formula.
- Optimized to simulate 400 iterations in less than 10 seconds before predicting the best possible move.

Sentiment Analysis Stock Forecaster

Sept 2020 - Dec 2020

- Developed a recurrent neural network with sentiment analysis and attention mechanism to forecast stock market prices across 2020.
- Trained neural network with scraped tweets from the stock investing community Stocktwits with bullish/bearish labels and quantitative data.
- Increased R-squared by over 10% when compared with the baseline LSTM model.

Search Engine Page Ranker

May 2019 - Jun 2019

- Implemented a Python-based search engine that retrieves according to user query and outputs highest ranking UCI ICS web pages.
- Created a inverted index storing web pages in the UCI ICS corpus based on tf-idf score, word frequency, and other heuristics in a SQL database to increase searching efficiency.

CERTIFICATE

IBM AI Engineer Professional Certificate Specialization

Credential ID: 9QTHE6CMCDYW

- Building convolution neural networks for image classification, sentimental analysis, and time series models in Keras, Pytorch, and Tensorflow while taking advantage of transfer learning with pre-trained models.