

ERIC CHOU JR.

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EDUCATION

University of California Irvine

Expected Jun 2021

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

TECHNICAL SKILLS

Languages

Python, C++/C, Java, SQL, R, Verilog, RISC-V, HTML

Tools and Libraries

Keras, PyTorch, Apache Spark, Tensorflow, scikit-learn, Selenium

Environments/Services

Windows, Linux, AWS, IBM Watson

EXPERIENCE

AI Research Associate

Dec 2020 - Present

United States Department of State

CA

- Deploy a prototype environment specifically for key phrase recognition, sentiment analysis, entity recognition, language identification, and translation for the Embassy of Singapore.
- Classifying large datasets of texts will be based on the prototype model focusing on specific keywords and phrases of interest.

ICS 31 Learning Assistant

Sept 2020 - Dec 2020

University of California Irvine

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.

Programming Instructor

Jun 2019 - Aug 2019

Progressive Kids

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

- A Python-based bot utilizing a simple Monte Carlo Tree Search with a selection stage applying a Upper Confidence Bound formula.
- Optimized to simulate 400 iterations in 10 seconds before predicting the best possible move.

UCI Machine Learning Death Analyzer

May 2020 - Jun 2020

- A Python-based analyzer taking advantage of UCI Health's Clinical Dataset to calculate death probability of patients and labeling patients experimenting with an unsupervised K-Means clustering algorithm.
- Patients are assigned scores according to length of hospital visit, amount of drugs taken, and number of health conditions.
- Patients are then clustered based on death probability and medical staff could leverage this information to quickly treat patients with dire need for help.

Android Forum Application

Mar 2019

- A Java-based Android Studio application created to encourage users to voice their opinions and spark conversations that users are passionate about.
- Posts and replies can be liked, disliked, replied to, and deleted and are saved all in Google's Firebase Database.

CERTIFICATE

IBM AI Engineer Professional Certificate Specialization

Credential ID: 9QTHE6CMCDYW

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