

# Colin Ho

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## EDUCATION

**University of Southern California,**

Los Angeles, CA

**B.S Computer Engineering and Computer Science,** GPA: 4.0/4.0

Aug 2020 - May 2024

- Relevant Coursework: Introduction to Programming, Discrete Mathematics for Computer Science, Multivariate Calculus, Applied Linear Algebra

**Coursera**

- Deep Learning Specialization, DeepLearning.AI Mar 2021
- Machine Learning, Stanford University Dec 2021

## PROJECTS

**BetterRadio**

May 2021 - August 2021

- Created a recommendation focused web music player using React, Django, and Spotify Web API.
- Implemented core functionalities such as recommendation engine to curate songs based on the user's top artists and genres, and search engine to find songs that accurately match any search query as well as the user's listening preferences.
- Developed a SQL database to store users' saved playlists and allow updates to their playlists at any time.
- Crafted the style and look of the app to create a beautiful, responsive UI.

**Chatbot**

May 2021-August 2021

- Built a hybrid deep learning and intent-based chatbot to answer professional questions about myself.
- Effectively utilised NLP techniques such as tokenization and word embeddings to preprocess textual inputs.
- Configured a neural network architecture comprising CNN and LSTM layers to accurately classify intents.

**Personal Portfolio**

May 2021-August 2021

- Designed a personal website using React and Flask to showcase myself, my skills, and projects.
- Styled the website with aesthetically pleasing and responsive features such as parallax scroll, modals, and animations.
- Integrated my personal chatbot into the website to answer questions and enhance user experience

## EXPERIENCE

**Human Resources Intern**

May 2017 - August 2017

*Fraser and Neave, Singapore*

- Developed Professional Coaching programs for employees to gain critical thinking and teamwork competencies.
- Researched and compiled financial data from regional competitors to enhance and renew current fiscal strategies.
- Honed key skills in time management and strategic communication as a result of meeting tight deadlines while collaborating with colleagues.

**Research and Development Laboratory Assistant**

May 2015 - August 2015

*AstraZeneca, Shanghai*

- Assisted in performing drug manufacturing processes for clinical trials.
- Facilitated the management and organization of foundational chemical compounds used for drug manufacturing.
- Gained invaluable lessons in organisation, discipline, and detail orientation in a high risk environment with toxic chemicals.

## MILITARY SERVICE

**Infantry Officer**

October 2018 - August 2020

*Singapore Armed Forces*

- Conducted training and tactical evaluations for reserve infantry battalions as an Infantry Platoon Trainer.
- Facilitated the conversion of military accommodation into emergency COVID quarantine facilities for at least 1500 at-risk migrant workers.
- Known for exceptionally prudent work ethic, ability to adapt to changes, and calm temperament under high pressure.

## SKILLS

- **Programming:** Python, C++, Javascript, ReactJS, Tensorflow, Keras, Scikit-learn, SQL, Git, HTML/CSS
- **Soft:** Leadership, Communication, Discipline, Adaptability, Teamwork