





# Kim Minseo

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## EDUCATION

### Nanyang Technological University, Singapore

B.Eng (Chemical and Biomolecular Engineering) with CN Yang Scholars' Programme

Aug 2020 - Jul 2024

CGPA: 4.68/5.00

## INTERNSHIP

### Software Development Intern

El Pando Pte Ltd

May 2022 - Jul 2022

Singapore

- Designed the Front-end of the new company website with added interactivity and responsive design.
- Hands-on experience with ASP.NET Code-behind approach.

### Undergraduate Student Research Intern

Digital Signal Processing Lab, School of Electrical and Electronic Engineering (EEE)

Jan 2022 - May 2022

Singapore

- AI For Soundscapes - Developed a probabilistic neural network, incorporating a bivariate normal distribution loss function to predict the associated perceptual of soundscapes

## CO-CURRICULAR ACTIVITIES

### President - 17th Management Committee

Students' Chemical and Biomedical Engineering Club (SCBE Club)

Sep 2021 - Aug 2022

- Improved the welfare of the faculty of more than 1000 undergraduates through the mentorship of 6 different directors in event planning - i.e. annual SCBE Chem-E-Car Competition, Festival Week.
- Ensured a smooth transition of the faculty's merger with the Division of Chemistry through the revision of the club structure and new initiatives such as the clan system.

### Business Director - 16th Management Committee

Students' Chemical and Biomedical Engineering Club (SCBE Club)

Sep 2020 - Aug 2021

- Generated S\$10,000 revenue for the club through school merchandise sales.
- Coordinated with different companies for partnerships for the biannual Exam Welfare Initiatives, which has garnered many positive reviews.

## PROJECTS

### Classifications of Soundscapes with Deep Learning Algorithm

Digital Signal Processing Lab, School of Electrical and Electronic Engineering (EEE)

Aug 2021 - Nov 2021

- Implemented convolutional neural network (CNN) architecture as a predictive model for soundscape affective responses. Mel spectrograms and mel-frequency cepstral coefficients (MFCCs) were analysed as optimised inputs for the deep learning model.

### Video Summarisation in Surveillance and Security Systems

SCALE@NTU, School of Computer Science and Engineering (SCSE)

Jan 2021 - Apr 2021

- Experimented with existing convolutional neural networks on human activity recognition (HAR) with Tensorflow/Keras.

### Weather App

Personal Project

Jun 2022

 Source Code

- A simple weather app utilising jQuery.ajax() for weather API fetching.

## CASE COMPETITIONS

### NUS Fintech Month 2022 Blockchain Hackathon

Problem Statement: "NFTs: Mint, Market or Monetize"

Jan 2022

- Proposed the creation of a decentralized NFT marketplace that provides the gateway to create universal NFTs that can exist across multiple-chains.
- Presented our prototype in semi-finals for being the top 29 teams out of 100 teams.

## COURSEWORK

### The Complete Node.js Developer Course (3rd Edition)

Udemy


Jun 2022

- Introduced with asynchronous API fetching, REST API, and WebSocket.
- Node.js | Express.js | MongoDB

### Web Design for Everybody: Basics of Web Development & Coding Specialization

Coursera


May 2022 - Jun 2022

- Capstone Project:  Personal Portfolio

### Complete React Developer in 2022 (Learning In Progress)

Udemy

Jul 2022

- From basics of React Library to advanced concepts such as React Hooks, React Context and React-Redux.
- Applying what I have learnt -  Source Code

## TECHNICAL SKILLS

**Programming languages:** Python, JavaScript

**Miscellaneous:** MongoDB, Firebase, L<sup>A</sup>T<sub>E</sub>X

**Web Technologies:** React, Node.js, jQuery, Bootstrap 5, Sass