Minseo KIM

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EDUCATION

Nanyang Technological University, Singapore Aug 2020 - Jul 2024
B.Eng (Chemical and Biomolecular Engineering) with CN Yang Scholars' Programme CGPA: 4.68/5.00

INTERNSHIP

Assistant Engineer, Data Analytics (Intern) Jan 2023 - Present
Air Liquide Singapore
- Effectively optimised the backend of the Power BI Dashboard by ensuring the database does not throw errors with newly added data and reducing the number of tables by 20%.
- Currently working on classification of noisy and noiseless data for various plant sites and potentially coming up with algorithms to effectively reduce data points for visualization.

Software Development Intern May 2022 - Jul 2022
El Pando Pte Ltd Singapore
- Designed the Front-end of the new company website with added interactivity and responsive design, utilising skills such as jQuery and Bootstrap 5.
- Hands-on experience with ASP.NET Code-behind approach, which was used by the company for their customized software services for different clients.

Undergraduate Student Research Intern Jan 2022 - May 2022
Digital Signal Processing Lab, School of Electrical and Electronic Engineering (EEE) 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 Sep 2021 - Aug 2022
Students' Chemical and Biomedical Engineering Club (SCBE Club)
- 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 Sep 2020 - Aug 2021
Students' Chemical and Biomedical Engineering Club (SCBE Club)
- 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 Aug 2021 - Nov 2021
Digital Signal Processing Lab, School of Electrical and Electronic Engineering (EEE)
- 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 Jan 2021 - Apr 2021
SCALE@NTU, School of Computer Science and Engineering (SCSE)
- Experimented with existing convolutional neural networks on human activity recognition (HAR) with Tensorflow/Keras.

** Weather App** Jun 2022
Personal Project   Source Code
- A simple weather app utilising jQuery.ajax() for weather API fetching.

CASE COMPETITIONS

NUS Fintech Month 2022 Blockchain Hackathon Jan 2022
Problem Statement: "NFTs: Mint, Market or Monetize"
- 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) Jun 2022
Udemy
- Introduced with asynchronous API fetching, REST API, and WebSocket.
- Node.js | Express.js | MongoDB

Web Design for Everybody: Basics of Web Development & Coding Specialization May 2022 - Jun 2022
Coursera
- Capstone Project: Personal Portfolio

TECHNICAL SKILLS

Programming languages: Python, JavaScript **Miscellaneous:** SQL, MongoDB, Firebase, Power BI, LaTeX
Web Technologies: React, Node.js, jQuery, Bootstrap 5, Sass