Shang Ce, Chan

Contact: 92963649 Email: chanshangce@u.nus.edu Singaporean

Education

SGUunited Skills Programme, *Web Development*, Lithan Academy **(**Oct 2020 – Apr 2021)

• Designed wireframes after gathering project requirements, and developed 2 high-fidelity webpage prototypes and ran usability tests in Axure RP 9.

• Created and managed a functional database for the webpage, written queries that can generate statistics that may be useful for the interactive website, using SQL/MySQL.

• Developed and tested the final project website for the implementations: registration/login/logout/search/view & update profile/password reset/messaging (with Java OOP, Struts 2, MySQL, HTML/CSS/JS/ Bootstrap, UAT/JUnit).

CS50, online course by Harvard University (Sept 2020 – current)

• Solved problem sets applicable to real-life scenarios, with computer science fundamentals with C.

Bachelor of Science (Hons.), *Chemistry Major*, National University of Singapore (2014 – 2018)

• Discovered the first known effective pathway for chiral tertiary alcohols with bulky functionalities.

• Developed a novel problem-based experiment for the course module curriculum that allowed students to think and decide their own directions in a scenario task; published the work in Journal of Chemical Education.

Work Experience

Research Scientist, Dialyss Pte Ltd (Feb 2019 – Jun 2020)

• Hastened data entry/processing from a 1 hour to a 10-minute duration via recording macros and editing VBA scripts for different experiment templates in Excel.

• Prototyped miniature experimental laboratory setups to resemble a prospective full-scale kidney dialysis medical device, while evaluating and improving the cost-efficiency of each setup.

• Optimized chemical mixture systemically via data analysis, achieving the first treatment method to closely avoid changes in all vital electrolyte levels throughout the entire duration.

• Minimized the usage of costly sterile dialysate water from 72 litres to 2 litres per treatment.

• Supervised and managed two interns in their projects such that they become more independent in problem-solving when the methods used frequently needed to be modified.