**SEBASTIAN PORTER ZADRO**  E: [sebastianporterzadro@gmail.com](mailto:sebastianporterzadro@gmail.com) | M: 0433012907

**Personal Objective** To pursue my passions in applied biology and software development. I sincerely wish to make the world a better place by working on projects related to human health and the environment.

|  |  |  |  |
| --- | --- | --- | --- |
| **EDUCATION** | | | |
|  | | | |
| **UNIVERSITY OF NEW SOUTH WALES**  *Bachelor of Commerce* (B.A.) | | | 1. **– 2022** |
| * Major in Financial Economics (Distinction average) | | | |
|  | | | |
| *Bachelor of Advanced Science* (B.A.) | | |  |
| * Major in Bioinformatics (Distinction average) * Foundational knowledge in Molecular Biology, Statistics and Computer science * Experience with programming in languages; Python, Perl, R and C   *Advanced Science Honours*   * Supervisor, Dr Fatemeh Vafaee * Thesis: Predicting Synergistic Drug Combinations for Cancer Treatment using Neural Networks (NNs). * Using known Loewe Synergy scores from the DrugComb database, expression data of perturbed cell-lines from the LINCS L1000 dataset and drug features derived from the Chemopy python package, I am building and training a NN model. The hope being that for unknown drug combinations, given the expression profiles for each drug on the same cell-line and their respective Chemopy drug features an accurate prediction of their synergistic performance can be predicted. * Data cleaning and model creation is being carried out in python, utilising the keras TensorFlow library for building NN architectures. | | | |
|  | | | |
| **ST ALOYSIUS’ COLLEGE** | | | **2010 – 2015** |
| * 96.15 ATAR * Reached rank of Corporal in Cadet unit | | | |
|  | | | |
| **EXTRACURRICULAR** | | | |
|  | | | |
| **BASKETBALL SOCIETY EXEC** | **2019** | | |
| *Vice President* | (1 year –) | | |
|  | | | |
| * Responsible for the coordination of half-court basketball games for two-hour sessions twice a week during term (Mondays 12pm-2pm and Thursdays 10am-12pm) * Responsible for manning stall during O-week, where attracted over a hundred and fifty new members | | | |
| **iGEM 2019**  *Team Member - Modelling,*   * Represented Australia in the UNSW team in an international Synthetic Biology competition. * Competed against hundreds of universities from across the world - researching, developing and commercialising an idea in the field of synthetic biology that solves real world problems. * Achieved a gold medal award for attempting to speed up the production of paclitaxel, a chemotherapy drug. * I was solely, responsible for modelling our protein system – constructed a 3D structure of our system using freely available software and ran molecular dynamic (MD) simulations and analysis on said structure. Was briefly introduced to high performance computing to run MD. | | | |  |
|  | | | |
|  | | | |
| **COMMUNITY SERVICE** | | | |
|  | | | |
| **ST VINCENT DE PAUL’S SOCIETY** | | **October 2012 – November 2014** | |
| *Night Patrol Member* | | (2 years, 1 month) | |
|  | | | |
| * Distributed food and supplies to homeless and marginalised members of the community in Surry Hills and Martin Place   **ST ALOYSIUS’ COLLEGE PHILLIPINES IMMERSION November 2013** *Member* (1 month)   * Conversed and played basketball with inmates on visitations to maximum security prisons * Aided the charity Gawad Kalinga by constructing homes for a local disadvantaged community in central Manila * On multiple occasions ran impromptu lessons for local children, teaching English and Australian culture | | | |
| |  |  | | --- | --- | | **PART-TIME WORK EXPERIENCE** | | |  | | | **ST ALOYSIUS’ COLLEGE** | **January 2018 – July 2019** | | *Basketball Coach of 3/4 AB teams* | (1 year, 6 months –) | |  | | | * Organised trainings, coached games and communicated with young team members and fellow coaches. * Successfully lead two teams to a combined twenty-three wins to one loss in first season with the 3/4 A team going undefeated. | | |  | | | **MCCONNEL SMITH & JOHNSON** | **January 2016 and January 2019** | | *Part-timer* | (2 months) | |  | | | * Contributed to the creation of floor plan sheets for Coffs Harbour Hospital by doing data input, manipulation and processing using Revit Architecture software platform. | | |  | | | **KURTOSH** | **November 2017 – May 2019** | | *Floor Staff* | (1 year, 5 months –) | |  | | | * Manage daily routine of the business while assisting production of bakery. * Customer service from a cashier, serving counter and waiting tables. * Consistent and dynamic working environment; cleaning dishes, clearing tables, helping couriers, but still prioritising the service of potential customers. | | |  | | | | | |
| **REFEREES** | | | |
|  | | | |
| Referees available on request | | | |