

## SUMMARY

An enthusiastic, driven penultimate year Food Science and Technology undergraduate passionate about food chemistry, fermentation, and product development. Demonstrated great interpersonal skills, and also marked leadership through a selective appointment as head teaching assistant for a foundational programming course. Seeking an internship opportunity to apply and hone my team working, problem-solving, and analytical skills in a real-world fast-moving consumer goods industry.

## EDUCATION

### National University of Singapore

Singapore

*Bachelor of Science in Food Science and Technology, Minor in Computer Science* Aug 2018 – Present

- Completed the first-year B.Sc. Chemistry curriculum: First-level Inorganic, Physical, and Organic Chemistry, Experiments in Chemistry, Calculus, and Fundamentals of Biochemistry.
- Expected time of graduation: May 2022
- Cumulative Average Point (CAP): 4.49 out of 5.00
- Awarded the Shirdi Sai Worship Centre Scholarship for Academic Years 2018/2019, 2019/2020, and 2020/2021
- Relevant coursework: Food Microbiology & Fermentation, Sensory & Flavour Science, Advanced Food Engineering, Chemistry of Food Components, Postharvest Food Processing, Statistics for Life Sciences.

## WORK EXPERIENCE

### Abbott Manufacturing (Singapore) Pte Ltd

Singapore

*Product Research Intern (Technical Centre)*

Dec 2020 – Present

- Provided intensive support for the milk powder production plant's daily operations and technical justifications for complaints or manufacturing issues.
- Involved in various product improvement or troubleshooting projects, such as oligofructose storage study, grain overprecipitation, and commodity exchange.

### Smart Nation and Digital Government Office (SNDGO)

Singapore

*Lead Instructor — Python Programming for the Public Service*

Dec 2019 – Nov 2020

- Conducted trainings on Python programming and data analysis to SNDGO and Ministry of Finance officers.
- Organised teaching materials with emphasis on data processing, analysis, and object-oriented programming.

### School of Computing, National University of Singapore

Singapore

*Senior Teaching Assistant — Programming Methodology I and II*

Aug 2019 – Present

- **Appointed Head in Dec 2019 – Jul 2020** to administratively coordinate the TAs and students in the module.
- Conduct tutorial classes to undergraduates, achieving an average teaching effectiveness of 4.1/5.0.
- Continuously contributing by developing new teaching assistants' training curriculum, integrated assignments plagiarism checking system, administrative tasks automation, and course materials improvements.

### PT Indoglove

Medan Industrial Park, Indonesia

*Production Intern*

Jun 2019 – Jul 2019

- Involved in the production steps of latex examination gloves, including compounding, dipping, coagulation, leaching, polymerisation, and quality control.
- Conducted tests on the gloves compounding mixture and samples of produced gloves to ensure consistency of the quality of the latex examination gloves.

## CO-CURRICULAR ACTIVITIES

### Ridge View Residential College Multimedia Team

Singapore

*Official Photographer*

Sep 2018 – Present

- Assisted documentation of college events for college's social media outreach and publications.
- Covered college events, such as Walk for Rice (with NTUC FairPrice) and NUS Open Day 2019.

### Jukebox, Music Interest Group of Ridge View Residential College

Singapore

*Senior Member, Percussionist*

Sep 2018 – Present

- Actively perform with the cajon, drums, and guitar in a band of five members.
- Performed in the annual concert "Concert by the Ridge" on Apr 7, 2019 at the University Cultural Centre before over 300 people, including the College's Master and Faculty Officers.

## PROJECTS

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### NiamKhun: A Laos Khao Soi instant noodle

- As the project leader, led team discussions on product research and formulation, delegated with the partner company (Mekong Group Pte Ltd), pitched the project as a viable, innovative product and was successful in winning third prize in the NUS FST New Product Development Competition 2020.
- As a member of the formulation team, collaboratively formulated and developed NiamKhun, an instant noodle inspired by the authentic Laos Khao Soi, a tomato-based soup noodle infused with soybean paste.

### Project Strawy: Investigating edible straws to reduce plastics waste ([Poster](#))

- Developed prototypes of edible straws from unbleached all-purpose flour, which was able to withstand 40 minutes of immersion in water and poke through cup seals.
- Expedited team discussions, especially as an evaluator, and challenged team ideas to strengthen them.
- Designed pitch presentation materials and poster; featured in RVRC Action for Sustainability Symposium 2019.

### CheMakers: A collaborative board game to teach organic chemistry ([doi:10.1021/acs.jchemed.0c01116](https://doi.org/10.1021/acs.jchemed.0c01116))

- Developed the board game mechanics, both pedagogically and digitally, conforming to the Bloom's taxonomy to support teaching organic chemistry to first-year Chemistry undergraduates.
- Developed a companion React app for a research organic chemistry board game for mobile devices to provide solutions to problems with QR code.
- CheMakers was pilot tested with 103 students of CM1121 Organic Chemistry 1 at NUS, and submitted to the ACS Journal of Chemical Education in Dec 2020.

### BloodConnect ([bloodwork-nus.github.io/bloodconnect](https://bloodwork-nus.github.io/bloodconnect) | [github.com/bloodwork-nus/bloodconnect](https://github.com/bloodwork-nus/bloodconnect))

- Independently developed a platform for connecting blood seekers and donors with Android/iOS apps powered by React Native and serverless back-end powered by Firebase. An [NUS Orbital 2020](#) Artemis level project.

### KeepTrack ([purfectliterature.github.io/keeptrack](https://purfectliterature.github.io/keeptrack) | [github.com/purfectliterature/keeptrack](https://github.com/purfectliterature/keeptrack))

- Developed a React Native app for Android and iOS to scan and save SafeEntry QR codes, allowing users to check-in and check-out of SafeEntry from the KeepTrack without repeatedly scanning the QR codes.

## SKILLS

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- **Applications:** Word, Excel, PowerPoint, ChemDraw, Compusense, Qualtrics, Mendeley, EndNote, Maple, SPSS, Adobe Photoshop, Illustrator, Premiere Pro, Audition, Lightroom, and After Effects.
- **Languages:** Fluent in Academic English, Fluent in Academic Bahasa Indonesia, and Hokkien.
- **Computer Languages:** Python, JavaScript, Java, C++, Visual Basic,  $\text{\LaTeX}$ , SQL, HTML5, CSS3, Dart.
- **Critical thinking:** Able to employ reasoning and logic to evaluate solutions and approaches to problems.
- **Team player:** Able to collaborate and engage with people of diverse disciplines and personalities, and accomplish tasks and goals consistently with excellent performance.
- **Communication:** Able to engage in discussions, applying empathetic qualities while communicating effectively.

## ADDITIONAL INFORMATION

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- Enjoys electronic music production, established a Spotify for Artists account, and has published two tracks on iTunes.