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SUMMARY

An enthusiastic, driven penultimate year Food Science undergraduate educated in Computer Science, strongly passionate about full-stack software engineering. 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 teamworking, problem-solving, and analytical skills in a real-world software engineering company.

EDUCATION

National University of Singapore

Singapore

Bachelor of Science in Food Science and Technology, Minor in Computer Science

Aug 2018 – Present

- Cumulative Average Point (CAP): 4.49 out of 5.00
- Expected time of graduation: May 2022
- Awarded the Shirdi Sai Worship Centre Scholarship for Academic Years 2018/19, 2019/20, and 2020/21
- Coursework: Software Product Engineering for Digital Markets, Programming Methodology, Data Structures & Algorithms, Computer Networks, Discrete Maths, Calculus, Professional and Academic Communication

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, Dart, C++, SQL, VB.NET, Shell, \LaTeX , Markdown, HTML5, CSS3.
- **Frameworks & Software:** React, React Native, Redux, Vue, Flutter, Android Studio, Node.js, Tailwind CSS, Firebase, Tensorflow.js, Microsoft Office suite, Figma, Adobe Photoshop, XD, Illustrator, Premiere Pro, Audition, Lightroom, and After Effects, Image-Line FL Studio.

PROJECTS

FaceOff: A multiplayer facial expressions party pack mobile game (faceoff.fun)

- FaceOff is a party pack of 3 multiplayer games, designed for 3-4 players, which uses players' facial expressions.
- Designed the entire game's user interface, UX prototypes, and design system, and co-developed the front-end.
- Closely collaborated in the project's ideation and prototypes' development, as well as experimenting with TensorFlow.js and PoseNet, Handpose, and Facemesh models as possible back-ends for the game.
- FaceOff was showcased in [The 17th NUS School of Computing Term Project Showcase \(STePS\)](#), was awarded the **Best Project Award (First Prize)** in Nov 2020, and will be featured in SoC's Open Day 2021.

Findaloo: Search toilets around you (findaloo.netlify.app | github.com/purfectliterature/findaloo)

- Findaloo is a mobile-first progressive webapp to find nearest toilets around the user, with details on genders, amenities, and user reviews, powered by React front-end, and Express.js, PostgreSQL, and AWS EC2 back-end.
- Led the entire design system, UI/UX prototypes, and front-end developments, and developed the UI components, main interfaces, back-end integrations, and progressive webapp implementation and optimisations.

BloodConnect (bloodwork-nus.github.io/bloodconnect | github.com/bloodwork-nus/bloodconnect)

- BloodConnect is a platform which connects blood seekers and donors through a mobile application.
- Solely designed and developed the entire stack of the application for Android and iOS with React Native front-end and Firebase serverless back-end. An [NUS Orbital 2020](#) highest-level (Artemis level) project.

KeepTrack (purfectliterature.github.io/keeptrack | github.com/purfectliterature/keeptrack)

- Solely 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.

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.
- 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.
- Developed a companion React app for a research organic chemistry board game for mobile devices to provide solutions to problems with QR code. (bit.ly/chemakers | github.com/purfectliterature/chemakers-ans)

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.

SENSI Indonesia

Jakarta, Indonesia

Freelance (github.com/purfectliterature/GenericAntimony, cleaned source code)

May 2019 – Jul 2019

- Developed a **frontend** Customer Records Management app for Android, and the **backend** RESTful API with Node.js in JavaScript and database management with MySQL.
- Developed a Windows app for database create, read, update, and delete (CRUD) with VB.NET and MySQL.

CO-CURRICULAR ACTIVITIES

Ridge View Residential College

Singapore

Official Photographer, Website Design Head

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.
- As the website design head, leading the entire design and development lifecycle of the College's open day showcase website for prospective students.

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.

ADDITIONAL INFORMATION

- **Languages:** Fluent in Academic English, Fluent in Academic Bahasa Indonesia, and Hokkien.
- Enjoys electronic music production, established a Spotify for Artists account, and has published two tracks on iTunes.