

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): 4.5 out of 5.0
- Expected time of graduation: May 2022
- Awarded the Shirdi Sai Worship Centre Scholarship for Academic Years 2018/2019 and 2019/2020
- Coursework: Computer Networks, Programming Methodology, Discrete Mathematics, Calculus, Statistics for Life Sciences, Workplace Readiness, Professional and Academic Communication

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, JSX, C++, SQL, VB.NET, Shell, \LaTeX , Markdown, HTML5, CSS.
- **Frameworks & Software:** React, Android Studio, Node.js, XAMPP, Postman, Microsoft Office suite, Adobe Photoshop, XD, Illustrator, Premiere Pro, Audition, Lightroom, and After Effects, Image-Line FL Studio.

PROJECTS

CheMakers Answers (bit.ly/chemakers | github.com/purfectliterature/chemakers-ans)

- Developed a companion React app for a research organic chemistry board game for mobile devices to provide solutions to problems with QR code.

Mercapto and Oganesson

- Developed Mercapto, a Python-based automated plagiarism checking system for Programming Methodology module with [MOSS](#) and Selenium, improving the total processing time from 1 day to 1 hour (2,300% faster).
- Developing Oganesson, an extensible API builder to automate management of courses hosted in [Coursemology](#).

NUS Panopto Bookmarklet (github.com/purfectliterature/PanoptoBookmarklet)

- Developed a JavaScript-based browser bookmarklet to download NUS online web lecture hosted in [Panopto](#).

WORK EXPERIENCE

Smart Nation and Digital Government Office (SNDGO)

Singapore

Lead Instructor — Python Programming for the Public Service

Dec 2019 – Present

- Conduct training on Python programming and data analysis to officers from SNDGO and Ministry of Finance.
- Organise teaching materials with emphasis on data processing, analysis, and object-oriented programming.

School of Computing, National University of Singapore

Singapore

Head Teaching Assistant — Programming Methodology

Aug 2019 – Present

- Delegate and coordinate the administrations of teaching assistants and students in the module.
- Conduct tutorial classes to undergraduates and plan teaching materials which align with learning objectives while incorporating solutions of various methodologies, achieving average teaching effectiveness of 4.1/5.0.
- Grade continuous assignments and provide constructive feedback for students' self-improvement, achieving the fastest average grading time of 1 hour and 16 minutes in AY2019/2020 Semester 1.

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 Multimedia Team

Singapore

Official Photographer

Sep 2018 – Present

- Assists documentation of events (e.g. NTUC Walk for Rice, NUS Open Day 2019) for outreach and publications.

Jukebox, Music Interest Group of Ridge View Residential College

Singapore

Senior Member, Percussionist

Sep 2018 – Present

- Proactively performs with cajon, drums, or guitar in a band of five members.
- Performed in "Concert by the Ridge" on Apr 7, 2019 at University Cultural Centre attended by over 300 people.

ADDITIONAL INFORMATION

- **Languages:** Fluent in Academic English, Fluent in Academic Bahasa Indonesia, and Hokkien.
- Enjoys music production, established a Spotify for Artists account, and has published two tracks on iTunes.
- Tools that I love: git, vim, bash, and zsh.