

Toh Zhen Yu, Nicholas

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Proficient in Java, Javascript, Python, ReactJS, Git
Familiar with C++, Ruby on Rails, PostgreSQL

EDUCATION

National University of Singapore — AUG 2019 - MAY 2023

- Bachelor of Computing in Computer Science (Honours) — GPA 4.94/5.0

NUS High School — JAN 2011 - NOV 2016

- Diploma (Distinction), Major in Mathematics with Honors in Biology and Chemistry

WORK EXPERIENCE

National University of Singapore — Undergraduate Teaching Assistant —

AUG 2020 - present

- Programming Methodology 1: intensively mentored a cluster of 8 freshman students
- Data Structures and Algorithms: designed problem sets and conducted lab sessions

SAP — Full Stack Developer Intern (Machine Learning) —

MAY 2020 - AUG 2020

- Developed tools for document information extraction (robotic process automation)
- Implemented document template detection tool using NLP heuristics
- Wrote continuous integration tests for Jenkins pipeline
- Built mainly with Python, deployed on Cloudflare in Docker containers

National University of Singapore — Research attachment (Food Science) —

2015 - 2016

- Studied the modification of fish gelatin to mimic mammalian gelatin in a 2 person team
- Published in Food Hydrocolloids (Elsevier)

Defence Science and Technology Agency — Research Attachment (Computing) —

2014

- Implemented algorithms to identify gender from voice recordings (independent work)
- Achieved >98.5% accuracy on Aurora 4 dataset

PROJECTS

SupperJio Telegram Bot — https://t.me/SupperJio_v2_bot

- Telegram bot designed to collate group orders, with over 1000 users
- Developed with NodeJS with PostgreSQL and cloud hosting
- Complete revamp of first version to improve scalability
- Created innovative human-friendly menu format, a sub-specification of YAML

Folio — <https://folio-hnr.netlify.com/>

- User friendly Resume/Portfolio creation app with drag and drop features
- Developed on ReactJS with Rails/PostgreSQL backend, deployed on Heroku and Netlify

Mousehunt Autobot — <https://github.com/nicktohzyu/Mousehunt-Autobot>

- Open source, automated script to play the Facebook game Mousehunt
- Built in JavaScript and Ajax
- Intelligent and complex, able to complete quests and events
- User-customizable through an injected HTML menu; stores persistent data

ACHIEVEMENTS

2020 Top 5% in Google Kickstart programming contest

2020 A+ grade for all computing coursework

2019 Top scorer for "Programming Methodology 1" in a class of 520 students

2015 Canadian Computing Competition 2015 (Distinction)

2014 Australian Informatics Competition 2014 (Perfect score)

Australian Informatics Olympiad 2014 (Gold)