

CAREER OBJECTIVE

Rao Yuchen is searching for part-time internship opportunities during his final year of study. He is self-motivated with passion in software-related position (e.g. software developer, data engineer) and has good coding and problem-solving skills. He likes to try new ideas and has a strong ability to turn his ideas into reality.

EDUCATION

Nanyang Technological University (NTU) *Aug 2018 – **Jun 2022** (Expected)*

School of Electrical and Electronic Engineering

- **Bachelor of Engineering (Information Engineering and Media)**
- **Honours (Highest Distinction)** (Expected); current CGPA: 4.59 / 5.00
- **NTU Science and Engineering Scholarship**
- Relevant Modules: (1) *Software Engineering* (2) *Computer Vision* (3) *Web Application Design* (4) *Data Structure and Algorithms*

INTERNSHIP

Autodesk Asia Pte Ltd – Software Engineer Intern (Identity) *Jan 2021 - Present*

- Partner with engineers in developing and optimizing identity process on current web product
- Undertake feasibility research on introducing better workflow on UI and front-end development
- Expose on the identity workflow of real-world product and decision-making in Agile process

Internship Project 1: ***AWS secret manager Integration on SSOAdmin Application***

- Integrated AWS services on one enterprise SSO application (.NET framework) to retrieve secrets from AWS instead of local configuration files
- Executed implementation in 2 testing phases (i.e. Web Portal Test, System Integration Test) and re-designed the related unit tests.

Internship Project 2: ***Security Settings Containerization with Access Token Injection (ongoing)***

- Integrate the security settings web page (React framework) to get rid of using manual token injection when running locally and in pull requests using Docker containerization
- Experiment on the containerization of security settings and implement a way of inject access token into it

ACADEMIC PROJECTS / RESEARCH EXPERIENCE

NTU Design and Innovation Project:

Goal Tracking Mobile Application (team of 11 members) *Aug 2020 – Dec 2020*

- Developed a mobile application (both Android and iOS) using Flutter framework
- Integrated database to cloud using Firebase and designed intelligent API for task recommendation based on tasks' categories and user input
- Implemented advanced features such as task recommendation and automatic sorting, Machine Learning-based OCR text recognition and highly customisable user interface
- Performed testing and error handling on implemented functionalities and interface
- Ranked second team among 8 teams in final presentation and demo session

NTU URECA (Undergraduate Research Experience on Campus)

Aug 2019 – Jun 2020

URECA Project: ***Security Study on Interest Flooding Attacking in Named-Data Network***

- Looked into field of Named-Data Network (i.e. a future network architecture) and reviewed literatures and issues related to Interest Flooding Attack with proposed countermeasures
- Coded in C++ and Python on linux ns-3 platform to conceptualize the scenarios and methods
- Discussed and analysed potential of ML-based methods to solve advanced attacking scenarios.

WORK EXPERIENCE

Nanyang Technopreneurship Centre (NTC), Web Developer

Jul 2020 – Dec 2020

- Performed maintenance to websites and optimization and modernization for user's interface
- Developed publicity materials based on corporate guidelines and applied to enhanced user's experience.
- Commended by the senior project director for efficiency and work excellence in providing design and IT support.

LEADERSHIP / CO-CURRICULAR ACTIVITIES

EEE Machine Learning & Data Analytic Club, Main Committee

Aug 2020 - Present

- Prepare and conduct workshops and training sessions for NTU students and public who are interested in machine learning fields; achieved over 160 participants in one NLP online workshop.
- Manage GitHub repositories and build code frameworks for future use
- Cooperate with Drone Project Team to design and develop posture-detecting drone using Computer Vision techniques

IET-NTU, Event Director

Aug 2019 - Present

- Led 8 team subcommittees in planning designing and coordinating event
- Managed and organized several technical workshops and company visits for NTU students.

SKILLS

- **Languages:** Fluent in English and Chinese (Mandarin)
- **Software Programming:** Python, C++, C#, Java, MATLAB, SQL, HTML, CSS, JavaScript, PHP
- **Software Framework:** React, React Native, Flutter, Node.js, .NET