

Rao Yuchen

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CAREER OBJECTIVE

Rao Yuchen is searching for a full-time graduate job. He is self-motivated with passion in IT positions (e.g. Software Engineer, Data Engineer). He is fast learner, able to move quickly and catch up all the necessary knowledge and proactive in communicating and making contributions to the team.

EDUCATION

Nanyang Technological University (NTU)

Aug 2018 – **Jun 2022** (Expected)

School of Electrical and Electronic Engineering)

- Bachelor of Engineering (Electrical and Electronic Engineering)
- **Honours (Highest Distinction)** (Expected); current CGPA: 4.59 / 5.00
- NTU Science and Engineering Scholarship
- **Relevant Modules:** (1) *Software Engineering* (2) *Web Application Design* (3) *Computer Vision* (4) *Artificial Intelligence and Data Mining*

Exchange Programme, University of Strathclyde, Glasgow

Jan 2020 – Jun 2020

Summer School, Korea University

Jun 2019 – Aug 2019

INTERNSHIP

Autodesk Asia Pte Ltd, Software Engineer Intern

Jan 2020 – Present

- Partner with engineers in developing and optimizing identity processes on current web products
- Undertake feasibility research on introducing better workflow on both front-end and back-end.
- 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***

- Migrated the local secrets to cloud (AWS) on an enterprise SSO application (.NET framework)
- Executed implementation in 2 testing phases (i.e., web portal test, system integration test) and re-designed the related functional tests; Improved the code security and optimize the codebase and profile workflow

Internship Project 2: ***Security Settings App Containerization and Pipeline Integration***

- Integrated the security settings web page (in ReactJS) and containerized it using Docker
- Performed the optimization on Jenkins' pipeline and automated the entire process of image building and cloud migration; largely reduce the workload of developers when testing UI results

ACADEMIC PROJECTS / MODULE PROJECT / RESEARCH EXPERIENCE

NTU Final Year Project: ***Next Generation Tour Guide – An AR Travel Assistant***

Aug 2021 - Present

- Conduct research on current AR-based products and explore the possibility to apply AR technology on tour guide applications
- Understand the concept of AR and its development skills, integrate the information (geo-location, attractions details, etc.)
- Expected to develop *an AR-based tourist guide application* through AR SDKs, plugins, and APIs to help travellers navigate local tourist attractions more intuitively.

NTU Design and Innovation Project:

Aug 2020 – Dec 2020

Mobile Application for Intelligent Goal Tracking (team of 11 members)

- Developed a mobile application (both Android and iOS platforms) using Flutter within 4 months
- Migrated database to Firebase and adopted intelligent API for automatic goal recommendation based on user's preference and activities
- Designed and Implemented advanced features such as smart sorting algorithm for goals, ML-based OCR text recognition on handwritten goal list, customizable UI, etc
- Ranked second among 8 competitors in final DIP challenge

NTU URECA (Undergraduate Research Experience on Campus)

Sep 2019 – May 2019

UREA 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 the literatures related to Interest Flooding Attack
- Coded *C++* and *Python* on ubuntu ns-3 platform to conceptualize the scenario and methods
- Discussed and analysed potential of ML-based methods to solve advanced attacking scenarios

LEADERSHIP / CO-CURRICULAR ACTIVITIES

EEE Machine Learning & Data Analytic Club, **Main Committee, Technical Trainer**

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 workshop
- Manage and maintain MLDA internal and open-source GitHub repositories
- Cooperated with the Project Team to design and develop posture-detecting drone
- Participated and assisted the activities (ceremony, workshops, competition) during Deep Learning Week 2020

SKILLS

- **Languages:** Fluent in English and Chinese (Mandarin)
- **Software Applications:** AWS, Docker, Jenkins, Git, Android Studio, Adobe PS/PR/AI
- **Software Programming:** Python, C++, C#, Java, Golang, HTML, CSS, JavaScript, SQL, PHP, Dart
- **Software Framework:** Flutter, ReactJS, NodeJS, .NET