Rao Yuchen

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Internship Availability: Aug 2021 – Dec 2021 / Jan 2022

CAREER OBJECTIVE

Rao Yuchen is searching for part-time internship opportunities during his final year of study. He is self-motivated with a passion for software-related positions with 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) *Web Application Design* (2) *Computer Vision* (3) *Software Engineering* (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 the 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 the 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 App Containerization and Cloud Migration(ongoing)***

- Integrate the security settings web page (ReactJS) with chassis and containerize it using Docker
- Perform the optimization on Jenkins pipeline and deploy the container to the EC2 instance
- Optimize the development workflow and enable UI result peeking through the GitHub link

Nanyang Technopreneurship Centre, *Digital Marketing Intern* *Jul 2020 – Dec 2020*

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

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 the 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 customizable colour scheme.
- Performed testing and error handling on implemented functionalities and UI.
- Ranked second team among 8 teams in final presentation and demo session.

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NTU URECA (Undergraduate Research Experience on Campus)   *Aug 2019 – Jun 2020*
Project Title: ***Security Study on Interest Flooding Attacking in Named-Data Network***
• Looked into the field of Named-Data Network (i.e. a future network architecture) and reviewed
  literature 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 the potential of ML-based methods to solve advanced attacking scenarios.

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)
• **Programming Languages**: Python, C++, HTML, CSS, JavaScript, C#, Java, MATLAB, SQL, PHP
• **Software Frameworks**: ReactJS, React Native, NodeJS, .NET, Flutter
• **CI/CD Tools**: AWS, Docker, Jenkins, Git