Pengyu **Wang**

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Education

New York University Abu Dhabi *Abu Dhabi, UAE*

B.S. IN COMPUTER SCIENCE · GPA: 3.91/4 *Sep. 2019 - May. 2023*

- Minoring in Applied Mathematics
- Honors/Awards: Four-Year Full Ride Scholarship

Experience

Nokia *Hangzhou, China*

SOFTWARE ENGINEERING INTERN *Jan. 2021 - Mar. 2021*

- Developed a website for displaying automated fault-finding information in internal technical documents
- Contributed to the iterative development of frontend with React and backend with SpringBoot
- Designed a full Continuous Integration pipeline and release scheme on 3 servers with Jenkins
- Implemented 3 error checkers that has 100+ daily usages internally

combyne *Munich, Germany*

JUNIOR DATA SCIENTIST *Jun. 2020 - Dec. 2020*

- Delivered 5 monthly user retention reports with BigQuery and Google Analytics
- Increased onboarding user retention rates by 5%
- Provides insights into users journeys at the scale of millions through data visualization with Python

AppCircle Education Technology *Hangzhou, China*

CO-FOUNDER & HEAD OF DATA TEAM *Aug. 2018 - Apr. 2019*

- Cofounded the company to provide an individualized quantitative analysis of the college application process
- Streamlined the data analysis pipelines for matriculation profiles analysis
- Accumulated more than 5500 college application profiles in the matriculation database

Project

Grocery On Rails *Abu Dhabi, UAE*

SCRUM MASTER & BACKEND ENGINEER *Feb. 2021 - Apr. 2021*

- Developed an online grocery platform with mobile app, admin panel, and RESTful API service
- Implemented the universal backend for clients and admin with Flask
- Coordinated three sprints with three teammates in different timezones

Screen Helper *Abu Dhabi, UAE*

PROJECT LEADER *Oct. 2020 - Nov. 2020*

- Deployed a web-app that reminds users of losing focus by tracking eye pupils with webcam
- Implemented the webcam utilization, image processing, pupil identification, and backend architecture

MindDoc *Changsha, China*

TEAM LEADER *Jun. 2021 - Aug. 2021*

- Reviewed 10+ studies on using machine learning to improve medical diagnosis and treatment
- Implemented an algorithm that classifies electroencephalograph into healthy and MDD (Major Depressive Disorder) with 0.92 accuracy

Research

Artificial Intelligence in Reducing the Use of Antibiotics in Urinary Tract Infections

CRANMORE FELLOW *Dec. 2020 - Present*

- Named one of the four recipients of a competitive funding to further research involvement
- Reviewed 20+ journals on using machine learning to assist clinical decisions
- Built machine learning models to predict the presence and treatment of urinary tract infections

The Genocide and Conflicts Research on Rwanda

RESEARCH ASSISTANT *Nov. 2019 - Jun. 2020*

- Investigated the social change of genocides from by providing evidence of textual analysis
- Crawled and transcribed speech data from 200+ images

Honors & Awards

2020	**Ranked 447 Globally, 1st UAE**, Google Hash Code Competition		*Abu Dhabi, UAE*
2019	**Best Business Potential**, TechX Hackathon		*Shanghai, China*
2020	**1st Place**, HackAD Challenge for Social Good		*Abu Dhabi, UAE*
2018	**First Prize**, Artificial Intelligence Competition of China		*Beijing, China*
2018	**Second Prize**, National Undergraduate Autopilot Design Competition		*Guangzhou, China*