

# Pengyu Wang

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## Education

### New York University Abu Dhabi

B.S. IN COMPUTER SCIENCE · GPA: 3.85/4

Abu Dhabi, UAE

Sep. 2019 - May. 2023

- Minor in Applied Mathematics
- Coursework: Computer System Organization, Big Data Processing, Deep Learning, Data Mining

## Experience

### Nokia

SOFTWARE ENGINEERING INTERN

Hangzhou, China

Jan. 2021 - Mar. 2021

- Developed a website for displaying automated fault-finding information in internal technical documents
- Participated in Agile as Scrum Master and used Docker to deploy MongoDB for database and SpringBoot for backend
- Designed a full CI/CD pipeline and release scheme on multiple servers with Jenkins and devised a systematic testing framework
- Implemented 3 error checkers that serves 500+ system engineers worldwide

### combyne

JUNIOR DATA SCIENTIST

Munich, Germany

Jun. 2020 - Dec. 2020

- Delivered 5 monthly user retention reports with BigQuery and Google Analytics
- Increased onboarding user retention rates by 2% and improved user experiences by working with product and community team
- Integrated Jupyter Notebook with existing data warehouses and compiled tutorials and code for other teams to access and analyze the data

### AppCircle Education Technology

CO-FOUNDER & HEAD OF DATA TEAM

Hangzhou, China

Aug. 2018 - Apr. 2019

- Cofounded the company to provide an individualized quantitative analysis of the college application process
- Developed the recommendation system that provides customized schools recommendations and match users with similar profiles
- Accumulated more than 5500 college application profiles with consent in the matriculation database

## Project

### Grocery On Rails

SCRUM MASTER & BACKEND ENGINEER

Abu Dhabi, UAE

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

PROJECT LEADER

Abu Dhabi, UAE

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

TEAM LEADER

Changsha, China

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

UNDERGRADUATE RESEARCHER

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
- Worked with local hospitals to obtain their original anonymized datasets and clean it to find the target cohorts
- Trained a neural network that embeds EHR and feeds them into a Graphic Neural Network for classification

## 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