

Pengyu Wang

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Education

New York University Abu Dhabi

B.S. IN COMPUTER SCIENCE · GPA: 3.91/4

Abu Dhabi, UAE

Sep. 2019 - May. 2023

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

Experience

Nokia

SOFTWARE ENGINEERING INTERN

Hangzhou, China

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

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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 5%
- Provides insights into users journeys at the scale of millions through data visualization with Python

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
- Streamlined the data analysis pipelines for matriculation profiles analysis
- Accumulated more than 5500 college application profiles 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 remind users of losing focus by tracking eye pupils with webcam
- Implemented the webcam utilization, image processing, pupil identification, and backend architecture

Research

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

CRANMORE FELLOW

Dec. 2020 - Present

- Named one of the four recipient of a competitive funding to grow research interests in academia
- Reviewed 10+ journals on using machine learning to assist clinical decisions
- Collaborated with Cleveland Clinics Abu Dhabi on piloting the use of machine learning model

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

Evaluation Model of Balloon Flight Safety Index

LEADING RESEARCHER

Feb. 2018 - Aug. 2018

- Trained various machine learning models with Scikit-learn
- Fine-tuned a ID3 decision-tree model that achieved 0.85 recall rate

Honors & Awards

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

Abu Dhabi, UAE

Shanghai, China

Abu Dhabi, UAE

Beijing, China

Guangzhou, China