

Yiqiu (ee-chew) Huang

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EDUCATION

Northeastern University

Sept 2021 - Dec 2023 (expected)

- **Degree: M.S. Data Science** | Boston, MA
- **Courses:** Scalable Distributed System, Robotic Science and System, Machine Learning, Information Retrieval
- **NU Robotics Club:** Built docker-based communication between **ROS** node and Raspberry Pi motor controller. Implemented a GUI to display motor in real-time using C++ **QT**

Northern Illinois University & AUFE

2017 - 2021

- **Degree:** Bachelor | **Major:** Statistics | **GPA:** 3.9/4.0 IL, U.S. & China

EXPERIENCE

Jreamscape LLC - Founding Engineer

June 2023 - present

React / Python / MoviePy / Azure

Boston, MA

- Full-stack builder of web application that auto-summarizes key points from real-time audio of business meetings and interviews
- Leading a team of 4 intern engineers to build automation pipeline that generates TikTok style videos. By **prompt engineering**, API and ML model integration, the pipeline generates different genres of video. Each product gain 10k+ view per day
- Gained accessibility in OpenAI restricted country like China using **Cloudflare** Workers and IP geolocation detection

Instawork - Software Engineer Intern

June 2022 - Dec 2022

Django / Hyperview / MySQL / Docker / AWS

Boston, MA

- Full-stack developer of **mobile** application that bridges job-seekers and short-term employment opportunities
- Won first prize in Instawork Hackathon developing a **Slack Bot** for company's internal search engine (indexed Slack chat history and internal company documents). Powered by **BERT** for improved search results
- Sent 10K push notifications daily using **Celery** and **Iterable**

Ping An Tech - Machine Learning Intern

Mar 2021 - July 2021

Django / PyTorch / MongoDB

Shenzhen, China

- Developed disease prediction module using ensemble model of **TF-IDF**, **Jaccard**, and **word2vec**
- Built audio classification model using **CNN**

Nanjing Mengzheng Tech - Data R&D Intern

Jan 2021 - Mar 2021

Flask / Sklearn / Plotly / MongoDB / RStudio

Xiamen, China

- Collected and analyzed land use composition data to create displays for establishing land appraisal

SKILLS

- Languages: Python, Javascript, Java, C++, Matlab, Go, Swift
- Libraries and frameworks: Django, React, QT, Spring Boot, ROS, Pytorch, Sklearn, gRPC, Flask, Celery, PyBullet, Gym
- Tools & Software: AWS, Docker, CSS, SQL, Git, Node.js, HTML, Bootstrap, Unity

PROJECTS

Robotics

- Trained an auto-navigated drone to 90% success-rate with **PPO/TRPO algorithm** and Pybullet simulation framework
- Built multiple CNN architectures including **AlexNet**, **ResNet**, **UNet**, **MobileNet**

C++ http server

- Implemented a C++ http server in **Linux** which support jpg, fonts, JavaScript, CSS file

Kafka-Distributed-Shop

- Built e-commerce shop with **React** and **Spring Boot**. Implemented **distributed transaction** using **Kafka**

gRPC-server

- Developed a multithreaded 2-phase protocol server utilizing **gRPC** and Java

Focuser

- Designed and developed a MacOS menu bar app that combines todo-list and timer using **Swift**