

Qiang Huang

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EDUCATION

Southeast University

Nanjing, China

Signal and Information Processing

Sep. 2020 – Jun. 2023 (in progress)

- Honors : First Class Scholarship for Graduate Students (2020)
- Classes taken : Stochastic processes, Modern digital signal processing, Digital communication, Reinforcement learning, Machine Learning and Evolutionary Computing

Jilin University

Changchun, China

Communications Engineering

Sep. 2016 – Jun. 2020

- GPA:3.68/4.0 (top 10%)
- Honors : National Merit Scholarship (2017, 2018), Second Class Scholarship (2017, 2019), Outstanding Student (2017, 2018), Provincial First Prize in Mathematical Modeling (2019)
- Classes taken : Algorithms and Data Structures, Computer Networks, Operating Systems, Principles of Compilation, Introduction to Database Systems

JOB OBJECTIVE

Looking for a challenging role in a reputable organization to utilize my technical, database, and management skills for the growth of the organization as well as to enhance my knowledge about new and emerging trends in the IT sector.

PROJECTS

Speech affective element estimation | *Python, Tensorflow, Librosa*

Jan. 2020 – Mar. 2020

- Transfer learning: spectrogram feature extraction using a pre-trained Inception network
- Using LSTM to classify features and make sentiment predictions
- Improving model performance using attentional mechanisms and CTC loss
- Improve model accuracy by using SVM to extract features from IS10 feature sets

Pulmonary Nodule Detection (Jilin Provincial Natural Fund) | *Python, Tensorflow*

Jun. 2019 – Jul. 2019

- Use seed growth algorithm to perform Canopy clustering on lung CT images to generate image regions
- Use the maximum between-class variance method for each region to adaptively cut the image
- Combine adjacent areas according to distance criteria to prevent over-cutting

Infertility Diagnosis | *Java, OpenCV, Git*

Apr. 2018 – Sep. 2018

- Remove the interference of E. coli and incompletely developed sperm based on the size of the object
- Segment the sperm head, acrosome, and tail, and do image enhancement
- Calculate sperm density based on sperm head count
- Determine whether the sperm is normal according to the proportion of the acrosome on the head of the sperm and the shape of the tail

TECHNICAL SKILLS

Languages: Java, Golang, Python, C/C++, C#, SQL

Frameworks: Pytorch, Tensorflow

Developer Tools: Docker, Google Colab, VS Code, PyCharm, IntelliJ IDEA, Goland, Linux

Libraries: Pandas, NumPy, Matplotlib, Scipy, OpenCV

CERTIFICATE

Languages: CET-6 (502), CET-4 (505)

Computer Level : HCIA-Kunpeng Application Developer, Computer Level Two Certification

SOCIAL EXPERIENCE

"100 Good Deeds" fundraiser

Sep. 2016 – Dec. 2016

Minister of Publicity

Changchun, China

- Responsible for the promotion of the event and the recruitment of volunteers
- Arrange volunteer activity routes and activity material distribution
- Negotiate with participating malls and match the details of the event