Zhao Gong

Engineering student in Electronic and Infromation

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🎓 Education

2014–2018   **Bachelor of Engineering**, *School of Electronic and Information Engineering*, Beijing Jiaotong University, China.
- Majored in Automation(EE domain)
- Major Courses: **Control Theories, Fundamentals of Artifical Intelligence, Intelligence Control**, Project of Electronic Systems,Computer Hardware Laboratory,Principles and Application of Microcontroller,Principle and Interface Technology of Microcomputer
- Major GPA:3.34
- Toefl:92(will be updated)
- GRE:315+3.0

💼 Experience

6/2018- present   **Research Assistant**, *Electromagnet Tomography Laboratory*, Supervisor: Prof. Liu, BJTU.
- Response for constructing a new big data platform; implemented new data storage methods to replace the old data warehouse; provide online data processing service; made the platform containerized for easliy implemented and scalable; wrote the instuction of implement and errors analyze.
- Joined a group of Ph.D Candidates to analyze the data from a project by using the platform mentioned above; Implemented Deep learning methods and non-deep learning methods to track the status of a system and predict potential malfunctions; Compared the answer of those methods.
- Developed a new probe to collect data; employed the platform constructed in the Graduation Project to do more experiment; analyzed data from experiment; **Submit the paper as the First Author in IEEE TVT.**
- Response for research information archive; assisted supervisor to manage the Laboratory; helped evaluate papers.
- Constructed a IoT platform to make the lab intelligent; Modified a wireness printer could print file from remote; developed a group of sensor and actuator to monitor the quality of air in the lab remotely and to control it automaticlly.

12/2018- 3/2019   **Team Leader**, *Histopathologic Cancer Detection Histopathologic Cancer Detection*, Kaggle.
- Implemented different methods to investigate data;
- Searched the GPU rental provider cross the Internet; investigated and compared amont the performance and price of those providers
- Established a online data analyze platform; realized online programming and visualize; built a data warehouse to store data offline; employed methods to analyze the distribution of the data; optimized data for better test score.
- Built a remote and user friendly deep learning platform; realized online hyper-parameters adjusting and result visualing; employed different Nerual Networks framewares for comparation; employed different CNN networks to predict answer to the test data; cross analyzed the answer to the data from different the framewares; create a vote method to obtain the most possible answer.
- Max accuracy score: 97%

12/2017- 5/2018   **Group Leader, Frameware Designer, Programmer**, *Graduation Project*, Advisor: Prof. Liu, BJTU.
- Established a scalable big data procssing platform; realized real-time computation of parameters analyze; built a data warehouse to store data offline; provide a reliable and efficient data source to support data mining.
- Constructed a online project submission web-site for remote projects;
- Developed a real-time electronic probe; Implemented a broker system to convey the data from the probe; Provide different mode to collect the data from electronic circuits.
- Highest grade in the final evaluation.

⚙ Skills

OS	Linux, Unix, Windows	Administration	Apache, Mailman
Programming	Java, C/C++, Go	Scripting	C♯, VB, Python
Scientific	Matlab, Autocad, Altium Dedsigner	Typography	LaTeX