

# Zhao Gong

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Engineering student in Electronic  
and Information



## 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 Artificial 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: 93 (will be updated)
- GRE: 315+3.0



## Related Experience

6/2018- **Research Assistant**, *Electromagnet Tomography Laboratory*, Supervisor: Prof. Liu, BJTU.

- present
- 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 easily implemented and scalable; wrote the instruction 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 wireless 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 automatically.

12/2018- **Team Leader**, *Histopathologic Cancer Detection Histopathologic Cancer Detection*, Kaggle.

- 3/2019
- Implemented different methods to investigate data;
  - Searched the GPU rental provider cross the Internet; investigated and compared among 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 visualizing; employed different Neural Networks frameworks for comparison; employed different CNN networks to predict answer to the test data; cross analyzed the answer to the data from different the frameworks; create a vote method to obtain the most possible answer.
  - Max accuracy score: 97%

12/2017- **Group Leader, Framework Designer, Programmer**, *Graduation Project*, Advisor: Prof. Liu, BJTU.

- 5/2018
- Established a scalable big data processing 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 Designer

Typography L<sup>A</sup>T<sub>E</sub>X