



马莹莹

后端开发实习生

## 教育背景

2016-2020

计算机和学与技术专业

东北大学

## 成果

- 英语六级
- 微信小程序“迅停车”
- [车辆追踪项目](#)
- [GitHub](#)
- [个人博客](#)

## 联系方式

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## 项目经历

2018.1至今

### 大学生创新创业大赛：基于多源多维感知的高速公路两客一危车辆轨迹追踪和事故预警

我正作为一个五人团队的负责人参与大学生做创新创业大赛，其内容是通过图像，声音等感知技术，在高速公路上识别两客一危车辆，进行轨迹追踪，事故预警。目前我们完成了用多个树莓派进行视频音频采集，提取车辆特征并上传到服务器，来进行不同摄像头下同一目标的跟踪。我们正在尝试发表一篇与此相关的论文。

2018.4-2018.6

### “迅停车”小程序开发

我与两个伙伴参与了高校微信小程序大赛，我们开发的小程序是与停车有关的，主要功能是为司机提供周围停车场有无车位和价格等信息，导航，私家车位主与公司空闲时间段出租车位。我的工作Node.js + MySQL后端。除了完成基础功能，我还按照经纬度分表，尝试了简单的优化。现在可通过左侧二维码访问测试版。

2017.9-2017.11 “DeepInsight” 申请与审核网站：第一次做项目负责人

我和同学共同开发了我们老师医疗软件的申请审核网站。在此之前，我曾作为一个前端参与过另一个web项目，而这次我学习了后端。这个系统曾经上线并投入使用一段时间。但后来，由于我们的学校网络的问题（在那段时间外网无法访问学校的服务器），它不再使用。

2017.8-2017.9

### 东北大学计算机学院夏令营

在夏令营中，我学习了51单片机智能小车的循迹避障，搭建LNMP环境，使用WordPress构建网站，使用爬虫爬取必应照片，初级的图像识别分类，构建Hadoop集群，使用Unity 3D开发VR游戏。虽然因为时间太短而无法足够深入地学习，但这使我对许多方面有了粗浅的了解并产生兴趣。并且因为表现不错，我获得了夏令营创新奖。

### 我的其他项目

关于鼎信预防火灾系统的app，主要功能是发送和接收报文，这让我了解了安卓开发的相关步骤。我还写过基于FPGA的八位模型机来加强自己对计算机内部的理解。用Django开发的个人博客和用tornado写的“个人实验室”也让我更熟悉python-web。

## 专业技能

### 后端

用Django和tornado写过web后端，用Node.js Koa写过小程序后端，安卓开发也写过一个小app。具备开发基本功能和部署的能力。对MySQL数据库操作较为熟练。我很想广泛接触各类语言框架，我相信这会有益于我对其中一项的专精。

### 前端

写过原生HTML、CSS、JavaScript。擅长通过搜索完成各种需要的功能。具备对前端基础的了解。

### 其他

对图像处理有所了解，写过KNN图像分类器和基于Inception-v3迁移学习的图像分类器。接触过树莓派、51单片机智能小车、ALINX ALTERA黑金开发学习板。一年前在老师的指导下搭建过Hadoop集群，用Unity 3D开发过小游戏。

## 关于我

我热爱编程，想成为一名合格的软件工程师。我愿意广泛学习各种新技术以促进自己对其中一项的专精。相比理论，实践使我更喜爱的学习方式，学习一个新技能或精进一个已有的技术会使我非常快乐。我在目前的所有课程设计中拿到了优。我也具备较为丰富的团队合作经验，乐于多交流来更好地解决问题。



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Back-end development intern

Educational Background

2016-2020

Computer Science and Technology  
Northeastern University in China

Achievement

- CET-6 certificate
- [GitHub](#)
- [My Blog](#)
- WeChat applets "Xuntingche"
- [Vehicle tracking project](#)

Contact

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Project Experience

After 2018.1

Now I am doing Innovation and Entrepreneurship Contest for University Students as a manager of a five-person team, the content is through the image, sound and other perceptive technologies, on the highway to identify dangerous vehicles, tracking, accident warning. At present, we have completed video and audio collection with multiple Raspberry Pi, extract vehicle features and upload them to the server to track the same target under different cameras. We are trying to publish a paper related to this.

Innovation and Entrepreneurship  
Contest for University Students

2018.4-2018.6

I participated in the WeChat applet contest with two partners. The WeChat applet we developed is related to parking. The main function is to provide drivers with information such as parking spaces and prices for the surrounding parking lots, navigation and the owner of the private parking space and the company rent out the parking space during their free time. My job is Node.js + MySQL backend. In addition to completing the basic functions, I also divided the tables according to latitude and longitude to try simple optimization.

WeChat applets "Xuntingche" :  
University Wechat Applet Contest

2017.9-2017.11 "DeepInsight" Application and Review Website :  
First Time Project Leader

I and my classmates developed the application and review website of our teacher's medical software. This system had been on-line for some time and was actually applied. Later, it was no longer used because of our school network reorganization.

2017.8-2017.9

Northeastern University Summer Camp

In the summer camp, I learned 51 SCM car's tracking obstacle avoidance, building LNMP environment, using WordPress to build websites, using crawlers to crawl Bing photos, image recognition classification, building Hadoop clusters, developing VR games with Unity 3D. Although the time is too short to learn deep enough, I already know about the general content. Because of the excellent performance, I received the Summer Camp Innovation Award.

Other

I developed a small app for a fire prevention system. The main function is to send and receive messages, which gives me an understanding of the steps involved in Android development. I also wrote an FPGA-based eight-bit model machine to enhance my understanding of the inside of the computer. Personal blogs developed with Django and "personal labs" written with tornado also made me more familiar with python-web.

SKILL

Backend

I wrote the web backend with Django and tornado, wrote the WeChat applet backend with Node.js Koa, and wrote a small app for Android development. I have the ability to develop basic features and deployments. I am familiar with MySQL database operations. I really want to have a wide range of languages and frameworks. I believe this will be good for my specialization. I am willing to learn new things.

Frontend

I've written native HTML, CSS, and JavaScript, and I'm good at doing all the necessary functions through search.

Other

I have an understanding of image processing, written KNN and image classifier based on Inception-v3 migration learning. I have been exposed to the Raspberry Pi, 51 SCM smart car, ALINX ALTERA development learning board

Me

I love programming and want to be a qualified software engineer. I am willing to learn a wide range of new technologies to promote my expertise in one of them. Compared to theory, practice makes me a favorite way of learning, learning a new skill or getting into an existing technology will make me very happy. I have achieved excellent results in all current course design. I also have a wealth of teamwork experience and are willing to communicate more to solve problems better.