

# 毛思诚 (Sicheng Mao)

邮箱: sichengm7@163.com

电话: 138-1799-1175



## 教育经历

卡内基梅隆大学 (CMU)	2020.08—至今
电子与计算机工程硕士	GPA: 4.00/4.00; 课程: 计算机系统, 云计算
上海交通大学 (SJTU)	2016.09—2020.06
机械工程学士	GPA: 85.72/100 (3.64/4.00); 课程: C++, Python, 数据结构, 单片机
东京大学 (UTokyo)	2019.04—2019.08
USTEP 交换生	GPA: 4.00/4.00; 课程: 机器人学, 机械系应用数学

## 实习经历

医学影像先进技术研究院	2020.09—2021.03
科研助理 (RA)	
<ul style="list-style-type: none"><li>应用元学习在 CT 胰腺分割, 提出基于 MAML 的预训练模型, 在 MRI 数据集上预训练</li><li>GAN 生成 CT 图片扩充数据集, 提出层间损失函数, 中心对齐法, 有效提升 2% 的 DSC</li></ul>	
美团点评	2020.04—2020.07
测试开发工程师 (QA)	
<ul style="list-style-type: none"><li>设计与编写大众点评 VIP 业务消息处理、定时任务处理的场景自动化测试用例</li><li>负责 VIP 业务的业务治理与团队交接; 完善回归测试流水线; 上线与维护老拉新功能</li></ul>	

## 学术经历

CMU, 高性能推特数据检索分析网络服务	2021.02—2021.05
<ul style="list-style-type: none"><li>使用 Spark Scala 处理 1TB 推特数据, 计算用户影响力排行, 用户间亲密度, 话题热门度</li><li>使用 MySQL 和 HBase 存储数据, Vertx 搭建网络层, 实现好友推荐系统, 与热推排行榜</li><li>处理验证区块链请求并返回加密响应</li></ul>	
CMU, 纽约市出租车车费预测应用	2021.03—2021.04
<ul style="list-style-type: none"><li>提取影响车费的特征, 训练价格预测模型; 结合语音/图片识别等 API, 部署云端预测服务</li></ul>	
CMU, 维基百科月度搜索量大数据分析	2021.01—2021.02
<ul style="list-style-type: none"><li>使用 MapReduce 对维基百科英文站大搜索量词条进行统计; AutoScaling 模拟应对流量高峰</li></ul>	
CMU, 动态内存分配器	2020.10—2020.11
<ul style="list-style-type: none"><li>使用分离空闲循环链表动态分配内存; 压缩 header/footer, 设计迷你块, 提高空间利用率</li></ul>	
交大毕设, 基于视觉的喷丝板检测机器人系统设计	2019.12—2020.06
<ul style="list-style-type: none"><li>双相机方案提升自动化; 插值数组找最长公共子串算法解决堵塞孔问题; Qt 开发用户软件</li></ul>	

## 技能与荣誉

编程语言: C/C++, Java, Python
工程软件: UG, IDEA, Qt, MATLAB, LabVIEW, ANSYS, AD
外语能力: 英语, CET6 590, TOEFL 110, GRE 325; 日语, N1 134
荣誉奖项: JASSO 奖学金, 学生学术能力提升计划, 校学业优秀奖学金*3, 优秀毕业设计等

## 学生工作与课外活动

上海交通大学全球大使
东京港区防灾 Festa 志愿者, 上海国际马拉松赛志愿者
慕尼黑大学暑期项目, 两岸大学生 (沪台) 社区企业见习营

# SICHENG MAO

sichengm7@163.com ♦ (+86) 138-1799-1175 ♦ www.linkedin.com/in/maosicheng

## EDUCATION

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<b>Carnegie Mellon University (CMU)</b>	Remote
<i>Master of Science in Electrical and Computer Engineering</i>	Aug. 2020 – Present
GPA: <b>4.00</b> /4.00; Coursework: <i>Introduction to Computer Systems, Cloud Computing</i>	
<b>Shanghai Jiao Tong University (SJTU)</b>	Shanghai, China
<i>Bachelor of Engineering in Mechanical Engineering</i>	Sept. 2016 – Jun. 2020
GPA: <b>85.72</b> /100 ( <b>3.64</b> /4.00); Coursework: <i>C++, Python, Data Structure, MCU System</i>	
Honors: JASSO Scholarship, Academic Excellence Scholarship, Excellent Capstone Design	
<b>The University of Tokyo (UTokyo)</b>	Tokyo, Japan
<i>USTEP Exchange Student</i>	Apr. 2019 – Aug. 2019
GPA: <b>4.00</b> /4.00; Coursework: <i>Robotics, Applied Mathematics for Mechanical Engineering</i>	

## PROFESSIONAL EXPERIENCE

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<b>Institute for Medical Imaging Technology</b>	Shanghai, China
<i>Research Assistant</i>	Sept. 2020 – Mar. 2021
<ul style="list-style-type: none"><li>• Applied meta-learning to CT pancreas segmentation; pre-trained on MRI; improved DSC by 2%</li><li>• Expanded dataset through GAN; proposed inter-slice loss function and center justification method</li></ul>	
<b>Meituan</b>	Shanghai, China
<i>Quality Assurance Intern</i>	Apr. 2020 – Jul. 2020
<ul style="list-style-type: none"><li>• Wrote automation test cases for VIP service; did business handover and new service launching</li></ul>	

## ACADEMIC PROJECTS

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<b>Twitter Analytics Web Service</b>	Feb. 2021 – Apr. 2021
<ul style="list-style-type: none"><li>• Processed 1 TB Twitter data with Spark; calculated user influence rankings and user relation scores</li><li>• Stored data with MySQL and HBase; built Vertx web service of user recommendation system</li></ul>	
<b>NYC Taxi Fare Prediction Application</b>	Mar. 2021 – Apr. 2021
<ul style="list-style-type: none"><li>• Did feature engineering; trained and deployed fare model combined with speech/image recognition</li></ul>	
<b>Big Data Analysis on Wikipedia Dataset</b>	Jan. 2021 – Feb. 2021
<ul style="list-style-type: none"><li>• Analyzed monthly search trends on Wikipedia using MapReduce; handled peak by auto-scaling</li></ul>	
<b>C Malloc Lab</b>	Oct. 2020 – Nov. 2020
<ul style="list-style-type: none"><li>• Allocated memory with segregated free list; designed compressed mini block to improve utilization</li></ul>	
<b>Spinneret Inspection Robot System Based on Vision</b>	Dec. 2019 – Jun. 2020
<ul style="list-style-type: none"><li>• Proposed dual-camera scheme; located blocking holes with LCS algorithm; developed Qt software</li></ul>	

## PROFESSIONAL SKILLS

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**Programming Languages:** *Advanced* – C/C++, *Intermediate* – Java, *Intermediate* – Python  
**Application Software:** UG, IDEA, Qt, MATLAB, LabVIEW, ANSYS, AD  
**Languages:** English (CET6 590, TOEFL 110, GRE 325), Japanese (N1 134)

## LEADERSHIP & ACTIVITIES

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SJTU Global Ambassador  
Volunteer, Tokyo Minato Bosai Festa, Shanghai International Marathon  
LMU Munich Summer Program, Shanghai-Taiwan Community & Enterprise Camp