QIANG LI

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EDUCATION

ETH Zürich, IDEA Research Grant Student, GPA: 1.7/1.0 November 2019 - August 2020

RWTH Aachen, M.Sc Computer Science, GPA: 2.2/1.0 October 2017 - October 2020

Hefei University of Technology, B.Sc IoT Engineering, GPA: Top 3 September 2012 - June 2016

PROJECT EXPERIENCE

Accenture Since June 2021 -
Analyst. Computer Vision Engineer • BMW Group • AIQX Project

- Delivered $\geq$ 20 E2E customized supervised-learning solutions to a unified cloud innovation ecosystem, use cases variously from **anomaly detection, object classification, semantic segmentation and optical character recognition**.
- As a Rollout Team Lead, responsible for resolving On-call tickets on the topic of cloud migration, integration, deployment and evaluation from Plant Munich, Mexico and China. Standardization of inference template with platform team and collaboration with counterparts from $\geq$ 10 automotive plants worldwide.
- Organized and participated in the Strategy & Consulting team, and delivered $\geq$ 3 assets and offerings to big OEMs and clients.

Sinovation Ventures September 2020 - December 2020
AI Research Intern. GitHub • Toolkits: Django, GPT

- Focused on **Bert, GPT-2/3 models**, enhanced the performance of GPT-based models and CPM (Chinese pre-trained model) in 10 business scenarios.
- Developed corresponding APIs based on Huggingface Transformers. Responsible for the whole backend Django server and wrote a technical report about the industrial application of GPT-3,

ETH Zurich IMSB Prof. Dr. Manfred Claassen Group November 2019 - August 2020
Masterand. GitHub • Toolkits: PyQt, YOLO, GhostNet, FasterRCNN

- Proposed a unifying approach enabling data-driven learning of morphological characteristics of Sezary Syndrome. Finished the master thesis: Cell Morphology Based Diagnosis of Cancer using Convolutional Neural Networks, rewarded as IDEA League Research Grant by RWTH and ETH Zürich.
- The paper on cell annotation tool for single-cell morphology data, has been accepted for poster presentation at AI for Public Health Workshop and a 2-minute spotlight talk at **ICLR 2021**.
- Achieved 2nd place on the **Deecamp 2020** medical track competition by CellNet Software integrating with 12 algorithms and 8 data sets.

Siemens AG December 2018 - November 2019
Computer Vision Working Student • Toolkits: C++, Scikit-learn, PCA

- Data acquisition, processing, aggregation and analysis for monitoring additive manufacturing process.
- Responsible for the development of Siemens Mindsphere cloud-based MVP Maintenance App and embedded image processing software.
- Designed **PCA, KMean and Colorspace Template Matching** Algorithms for object detection and segmentation. Invited talk **In-Process Control and In-Situ Monitoring for AM** at the ICAM2020.

SELECT PUBLICATIONS

- **Q. Li**, R. Hashmi, *Explainable AI: Object Recognition With Help From Background.* The International Conference on Learning Representations (**ICLR**), **CoSubmitting Summer (CSS) Workshop**, 05.2022.
- **Q. Li**, O. Corin, L. Xu, *All you need is Cell Attention: A Cell Annotation Tool for Single-Cell Morphology Data.* The International Conference on Learning Representations (**ICLR**), **Workshop on AI for Public Health**, 03.2021.
- J. Haimid, **Q. Li** *Localization and visualization of defects by PCA, KMeans, Colorspace Template Matcthing for Additive Manufacturing.* Technical report in Siemens AG, Oral presentation on (**ICAM**) 2020.

HONORS AND SCHOLARSHIPS

The AWS Certified Cloud Practitioner in August 2021
The RWTH Stipend in IDEA League Research Grant, 2020
The Siemens Statistic/Six Sigma training in 2019, Yellow Belt Certification
The Siemens Automation meets Edge global University Challenge in 2018, 4th Prize
The Europe BEST Engineering Competition in 2018, 2nd Prize in the case study, Europe region
The Connected Campus Idea Competition 2017 (CCIC), Top 7 in Berlin. Europe region
The Undergraduate Student with Distinction of Hefei University of Technology in 2016
The International Internet of Things (ICAN) Innovation Competition in 2014, 3rd Prize in China
The International Robocup Robot Competition in 2014, 1st Prize in China, 12th Prize in Global

TECHNICAL STRENGTHS

Computer skills	Senior: Tensorflow, AWS Cloud, Openshift, Azure Cloud
	Senior: Python, MySQL, PyQt, Flask, Pytorch, CI/CD
	Junior: C/C++, Kubernate, Apache Kafka, Docker, ArgoCD, K9s
Languages skills	Native: Chinese
	Fluent: German (DSH-2), English (IELTS: B2)
	Intermediate: Korean

EXTRACURRICULAR ACTIVITIES

PayLuft Zürich Fintech Startup February 2021 - June 2021
Computer Vision Engineer Intern • Website. Toolkits: Flask, Tensorflow, Mediapipe

- Built the core application from scratch, using FaceNet, Google Mediapipe and Egocentric HandNet for **biometric feature tracking and classification**.
- Responsible for the development of Flask Web App, data collection and database construction. Report directly to the CEO and Co-founder.

Top AI Camp DeeCamp2020, Sinovation Ventures and UNDP July 2020 - August 2020
Candidate

- Completed two months of seminars and hands-on projects with all data sets from real enterprise scenarios. All workshops are taught by leading scientists, such as Andrew Ng and Kaifu Lee.
- Rewarded as Best Team Leader and Excellent Performance Team, achieved 2nd place in track 1 (AI in Public Healthcare), Top 10 out of 41 teams in five tracks.

Hefei University of Technology, China November 2013 - November 2014
Program Technical Chair, Radio broadcaster and Journalist • Relevant link

- Interviewed with 40+ entrepreneurs and excellent leaders.
- Published 20+ articles on social platforms, college newspapers, state-level New-Media.
- Technical chair of university **ICPC/ACM/Robocup Robot football competition**.