

Pin Chun Wang

AI ENGINEER · JUNIOR BACKEND ENGINEER

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"You are what you measure."

Education

National Tsing Hua University

M.S. IN COMPUTER SCIENCE

Jan. 2016 - Jun. 2017

Hsinchu, Taiwan

- Networking and Multimedia System Lab with Dr. Cheng-Hsin, Hsu
- Thesis: Building a Next-Generation Cloud Gaming Platform with Planar Map Streaming and Distributed Rendering
- Graduated in one year with GPA 4.03/4.3 and four publications



Experience

Umbo Computer Vision

AI ENGINEER

Jul. 2018 - Present

Taipei, Taiwan

- Build an API server for faster model evaluation result with a specialized designed cache.
- Built data sampler, data collection cronjob and deploy on k8s to collect the up-to-date customer data.
- Using AWS Lambda to serve as an event-based CV component, connecting edge device with cloud service. Introduce xray, elasticsearch, and New Relic to investigate computation bottleneck and reduce the runtime from 3.2s to less than 1s.
- Co-work with Infra team members to build CI/CD, logging, monitoring for Lambda service. Leverage New Relic as logging system for faster searching compared with AWS CloudWatch. Use Elasticsearch plus grafana for metrics visualization and alerting.



Simula Research Laboratory

RESEARCH TRAINEE

Jul. 2017 - Dec. 2017

Oslo, Norway

- Supervisor: Prof. Carsten Griwodz
- Project: Building Site Inspection Supported by Augmented Reality
- Survey, evaluate and improve state-of-the-art 3D reconstruction and matching
- Co-work with opensource project AliceVision. Propose issues and possible improvements through real-world 3D reconstruction experiment.

simula

Skills

Programming Python, C++

Back-end REST API, MySQL, Redis, MongoDB

DevOps AWS, GCP, Jenkins, Terraform, Grafana, New Relic, Elasticsearch

Languages English, Germany

Extracurricular Activity

Women Who Code

SPEAKER/VOLUNTEER

Nov. 2018 - PRESENT

- Host two python tutorials for beginners with 40 audience each.
- Give a 30 mins talk titled: My First CV Deep Learning Project on Book Club
- Help and answer questions on MLCC for women 2019.



PyCon TW 2020

SPONSOR TEAM MEMBER

Mar. 2020 - PRESENT

- Contact potential company and provide custom sponsor packages.
- Contact other pycon community to discuss possible sponsor packages when the conference need to go virtual due to COVID-19.



Honors & Awards

Nov. 2016 **Scholarship of Pan Wen Yuan Culture Foundation**

Taipei, Taiwan

Aug. 2016 **ACM Multimedia 2016 Travel Grant**

Amsterdam, Netherlands

Aug. 2016 **Google Anita Borg Memorial Scholarship Asia Pacific**

Hyderabad, India

Sep. 2014 **Scholarship for Excellent Students to Study Abroad**

Taipei, Taiwan

Publications

JOURNAL ARTICLES

Delay-sensitive video computing in the cloud: A survey

Maha Abdallah, Carsten Griwodz, Kuan-Ta Chen, Gwendal Simon, Pin-Chun Wang, Cheng-Hsin Hsu

ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM) 14.3s (2018) pp. 1–29. ACM New York, NY, USA, 2018

CONFERENCE PROCEEDINGS

A Scalable Video Conferencing System Using Cached Facial Expressions

Fang-Yu Shih, Ching-Ling Fan, Pin-Chun Wang, Cheng-Hsin Hsu

International Conference on Multimedia Modeling, 2017

Optimizing next-generation cloud gaming platforms with planar map streaming and distributed rendering

Pin-Chun Wang, Apollo I Ellis, John C Hart, Cheng-Hsin Hsu

2017 15th Annual Workshop on Network and Systems Support for Games (NetGames), 2017

Interference-aware video streaming over crowded unlicensed spectrum

Ching-Ling Fan, Daniel Huang, Pin-Chun Wang, Cheng-Hsin Hsu

2016 18th Asia-Pacific Network Operations and Management Symposium (APNOMS), 2016

Towards ultra-low-bitrate video conferencing using facial landmarks

Pin-Chun Wang, Ching-Ling Fan, Chun-Ying Huang, Kuan-Ta Chen, Cheng-Hsin Hsu

Proceedings of the 24th ACM international conference on Multimedia, 2016