

Yang ZHOU

Machine Learning Developer

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 1591 Riverside Drive, Ottawa, ON

- › M.A.Sc graduate from University of Ottawa on Deep Learning based Image Processing.
- › Development skill on machine learning, Web and mobile platforms.
- › 4 years' work experience in IBM China.

SKILL

Languages	Python, C++, JavaScript, Elixir, Go and Rust
Frameworks	PyTorch, NumPy, Keras, Tensorflow and SciKit-Image
Development Tools	Vim, Git, Docker, Vagrant
Operating Systems	Linux (Debian, RHEL), macOS and Windows
Others	Web development (HTML, React) and mobile development (iOS)

LANGUAGE

Mandarin 
English 

STRENGTH

- › Fast learner
- › Strong self-motivation
- › Creative and critical thinking
- › Enthusiastic about cutting-edge technology

EDUCATION

2016-2018 M.A.Sc., Electrical and Computer Engineering, University of Ottawa, Ottawa, Canada
2008-2012 B.Eng., Electrical and Information Engineering, Beihang University, Beijing, China

PUBLICATIONS

2018 Efficient Image Matting based on Dynamic Filter Network

- › Lead author.
- › A novel CNN-based image matting (foreground extraction) method.
- › Achieve the state-of-the-art performance while being more efficient than other methods.
- › Experiments have been completed. The paper is in progress.

February 2018 Video Super-Resolution with Compensation in Feature Extraction

- › Lead author.
- › A novel CNN-based video super-resolution (upsampling) method based on my previous work.
- › Outperform the state-of-the-arts by a large margin.
- › The paper has been ready for submission.

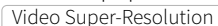




December 2017 Knowledge Base Completion via General Score Function

- › Lead author.
- › A novel knowledge base completion (prediction) method with a self-learned adaptive model.
- › Outperform the state-of-the-arts with little overhead.
- › Derived from a course project on graphical model.
- › The paper has been ready for submission.

October 2017 Video Super-Resolution via Dynamic Local Filter Network

- › Lead author.
- › A novel CNN-based video super-resolution method.
- › Outperform the state-of-the-arts by a large margin.
- › The paper has been ready for submission.

WORK EXPERIENCE

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|-----------|---|
| July 2016 | Engineer for IBM Power Systems, IBM, China <ul style="list-style-type: none">> In charge of maintenance services for VIP customer, CITIC Bank.> Software technical support for IBM AIX Unix systems and PowerHA high availability systems.> Hardware technical support for IBM Power systems, PowerVM virtualization systems and DS/XIV data storage systems. <div>IBM Power System Unix high-availability virtualization</div> |
| July 2012 | |

PROJECT EXPERIENCE

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|---------------|--|
| November 2016 | H.264 video decoder <ul style="list-style-type: none">> Built from scratch in Python.> For educational purpose.> Capable of decoding luminance channel from bitstream. <div>video decoder H.264 Python</div> |
| December 2015 | WebVR video player <ul style="list-style-type: none">> A web player which plays panorama video stream in VR mode.> A technical prototype based on WebVR standard. <div>video streaming WebVR Javascript</div> |
| June 2015 | Virtual suit trial web app <ul style="list-style-type: none">> A technical demo of a virtual suit trial web application.> Based on Three.js and WebGL. <div>Three.js WebGL Javascript</div> |
| January 2015 | Course enrollment system <ul style="list-style-type: none">> A course enrollment system built for Beihang University.> Real-time update for seats availability. <div>Meteor.js MongoDB SPA Javascript</div> |
| March 2014 | MistFlat smart plug <ul style="list-style-type: none">> A remote-controllable smart plug as a startup project.> iOS App in Objective-C.> Backend prototype in Node.js. <div>iOS Objective-C Node.js</div> |

CERTIFICATES

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|-----------|---|
| June 2015 | Red Hat Certified Engineer (RHCE)
Red Hat Enterprise Linux Administration |
| June 2015 | Cisco Certified Network Associate (CCNA)
Routing and Switching |

HOBBIES & INTERESTS

- Coding** I'm a geek and hacker, which means coding is my primary hobby.
I always put an eye on the cutting-edge technologies and hope to use them in real-world.
- Coffee** I'm also an enthusiast for (black) coffee.