

#### SOFTWARE DEVELOPMENT ENGINEER

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"Success is not final, failure is not fatal. It is the courage to continue that counts."

## **Education** \_

#### KTH Royal Institute of Technology (KTH) | EIT Digital

Stockholm, Sweden

M.Sc. Major: Embedded Systems, Minor: Innovation & Entrepreneurship. GPA: 8.7/10.0

2015 - 2016

• Machine Learning, Data Analysis, Software Development, Internet of Things, ASIC Design and FPGA, System Modeling.

### Eindhoven University of Technology (TU/e) | EIT Digital

Eindhoven, The Netherlands

M.Sc. Major: Embedded Systems, Minor: Innovation & Entrepreneurship. GPA: 7.8/10.0

2014 - 2015

• Computer Architecture, Embedded Software and Hardware, Multiprocessors, Network-on-Chip, Wireless Networks.

#### University of Electronic Science and Technology of China (UESTC)

Chengdu, China

B.Eng., Electronics and Computer Science related subjects. Overall GPA: 88%

2010 - 2014

· Excellent Graduation Thesis.

## Skills & Competences \_\_\_\_\_

**Programming** Python, Java, C, C++, Shell, Scala, CUDA C, JavaScript

**Tools** Linux, Docker, Elasticsearch, Logstash, Kibana, Git, Amazon EC2

**Languages** English (Full profesional proficiency), Chinese (Native), Dutch (Elementary)

**Business** Innovation & Entrepreneurship, Business Development, Marketing, Product Development **Personality** Team-player, Proactive, Motivated, Ambitious, Open-minded, Curious, Adaptive, Responsible

# Experience \_\_\_\_

#### Works

## **ING - Internationale Nederlanden Groep**

Amsterdam, The Netherlands

Sep. 2016 - PRESENT

Jan. 2016 - Aug. 2016

IT SPECIALIST

• IT Graduate Program. Lean & Agile Software Development. Scrum Team and DevOps.

• Rotation 1: Data analysis with Cyber Fraud Prevention Team for Wholesale Banking. Python, Elasticsearch, Logstash, Kibana (ELK).

• Rotation 2: Site/Service Reliability Engineering (SRE).

Ericsson Stockholm, Sweden

INTERNSHIP AND MASTER THESIS

• Machine Learning and Data Analysis on log data. Recurrent Neural Network (RNN) and Naive Bayes.

- Python (with Keras, Numpy, SciPy and Theano), Java and Amazon EC2.
- Large scale software architecture.

### **Robotics Institute, UESTC**

Chengdu, China

RESEARCH ASSISTANT

Sep. 2012 - Jun. 2014

- Design and development of intelligent controlling algorithms and solutions for robot manipulators and marine risers.
- Implementation of the algorithms on real robots. Accomplishment of several papers published.

#### **PROJECTS**

## WeChat WeApp: 500px | 微信小程序之 500px

Amsterdam, The Netherlands

PERSONAL OPEN SOURCE PROJECT

Oct. 2016

- JavaScript, CSS, XML.
- · Front-end Design and Programming.

#### **Personal Project on Machine Learning**

KTH ROYAL INSTITUTE OF TECHNOLOGY (KTH)

Stockholm, Sweden

Oct. 2015 - Sep. 2016

- Machine Learning algorithms analysis and programming using Python.
- · Study and practice Apache Spark and Scala language.

### System Design using SystemC (C++) and Transaction Level Modeling (TLM)

Stockholm, Sweden

KTH ROYAL INSTITUTE OF TECHNOLOGY (KTH)

Sep. 2015 - Nov. 2015

• System design and implementation using SystemC: Bus, RAM and ROM, Channel and Interface, Transaction Level Modeling, Concurrency and Time, Process and Thread, Simulation, Debugging, Signal and Data Type.

#### JPEG Decoding based on Xilinx's MicroBlaze Multiprocessor Embedded Platform

Eindhoven, The Netherlands

Feb. 2015 - Jun. 2015

EINDHOVEN UNIVERSITY OF TECHNOLOGY (TU/E)

- JPEG Decoding algorithm and Image Processing.
- Focused on the impact of multiple processors, accelerators, distributed shared heterogeneous memory hierarchy.
- · Various parallel strategies. DMAs and Network-on-Chip Communication with limited bandwidth.

#### **Dynamic Memory Management for High Performance and Low Power Cost**

Eindhoven, The Netherlands

Dec. 2014 - Jan. 2015

EINDHOVEN UNIVERSITY OF TECHNOLOGY (TU/E)

- Use smaller memories/buffers: Scratch Pad Memory (faster and less energy consuming)
- Reduce the number of memory accesses by optimizing C code: Loop Transformation, Temporal and Local Data Reuse, etc.

#### Bitcoin Mining based on NVIDIA's GPUs using CUDA

Eindhoven, The Netherlands

EINDHOVEN UNIVERSITY OF TECHNOLOGY (TU/E)

Oct. 2014 - Dec. 2014

- Solve the hash algorithm for mining "fake" bitcoins by utilizing GPU's powerful data parallelism and multi-thread features.
- GPU architecture, multi-thread computing, shared memory. CUDA C and OpenCL.

#### Wireless Sensor Network (WSN): Automatic Agricultural Monitor and Control

Eindhoven, The Netherlands

Sep. 2014 - Dec. 2014

EINDHOVEN UNIVERSITY OF TECHNOLOGY (TU/E)

- Design and evaluate a WSN based on a bunch of Atmel's low-power MCUs using C.
- Implement Beacon-enabled CSMA-based MAC protocol (IEEE 802.15.4) and hierarchy routing layer.

### Virtual Environment: Panum's Fusional Area Approximation

Eindhoven, The Netherlands

Sep. 2014 - Dec. 2014

EINDHOVEN UNIVERSITY OF TECHNOLOGY (TU/ $\epsilon$ )

- Design and conduct an experiment to measure the shape of a fusion area.
- Based on Fontys' VR-Cave laboratory and WorldViz Vizard. Python.

## **Honors & Awards**

### **SCHOLARSHIPS**

2014 **Scholarship of Excellent Graduate** Outstanding performance during entire undergraduate time *UESTC, China* 

2013 **Jiuzhou Scholarship** Only two students were honored *Jiuzhou Group, China* 

2012 **Suzhou Industrial Park Scholarship** Top 5% Suzhou Industrial Park, China

2011 **The People's Scholarship** Great grades in the first year *UESTC, China* 

Socials

#### **Business Development. Market Research. Presentation and Communication.**

Finland & The Netherlands

EIT DIGITAL SUMMER SCHOOL

Aug. 2015, Helsinki, Finland Feb. 2015, Eindhoven, The Netherlands

EIT DIGITAL WINTER SCHOOL

Volunteer on ICONS 2013

Chengdu, China

THE 3RD IFAC INTERNATIONAL CONFERENCE ON INTELLIGENT CONTROL AND AUTOMATION SCIENCE (ICONS 2013)

Sep. 2013

**Volunteer on ICSR 2012** 

Chengdu, China

INTERNATIONAL CONFERENCE ON SOCIAL ROBOTICS (ICSR 2012)

Oct. 2012