

Zezhong Wen

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PROJECTS PRESENTATION

Project name: A light weight thread library in C 12/2016 ~ 6/2017
C/ASM Developer

Description:

1. synchronous light weight thread channels
2. light weight thread channels: asynchronization and multi-wait
3. M:N Threading, combination with kernel thread

Source code: <https://github.com/philipwhen/Light-weight-thread-library>

Machine learning paper: New ideas based on Hamerly's algorithm to accelerate k-means

Machine Learning Researcher 12/2016 ~ 7/2017

Instructor: Claire Monteleoni, Greg Hamerly

Highlight: Better k-means Objective and faster (5~8 times) than Hamerly's algorithm
(Got e-mail confirmation from Greg Hamerly)

Paper, source code(C++) and data set:

<https://github.com/philipwhen/fasterkmeans>

Project name: key framing animation 5/2016 ~ 10/2016

C++ Developer

Description:

1. Euler angle input and quaternion input switchable.
2. Euler angle interpolation and quaternion interpolation switchable.
3. CATMULL_ROM and B_SPLINE interpolation method switchable.

Source code: <https://github.com/philipwhen/Animation-Project>

EXPERIENCE

Huawei Technologies, Shenzhen, China 8/2014~8/2016

Software developer(Python/Shell/PowerShell)

Responsibility:

Developed automation tools in the team of IaaS of private clouds
The tools increased the efficiency of the company's work by 60%
System administration (Linux, Windows, NAS, SAN)

Citi Bank, Hong Kong 5/2012 ~ 5/2013

Software Developer/Team Leader(C#/Matlab)

Responsibility:

System name: Commercial bank interest rates Analysis System
Developed using C# to build the software and Matlab to build the economy model
Got the Silver prize in the National Competition

ChinaSoft International, Beijing, China

5/2012~9/2012

Java Engineer Intern

Responsibility:

Developed a travelling website based on HTTP+SSL. Developed using jQuery to implement animations, data transmission with Ajax. Encryption to ensure data security, and check for XSS attack and SQL injection.

VOLUNTEER EXPERIENCE

George Washington University CSSA, DC

8/2016~

Java Engineer

Responsibility:

Forum development and management

Developed using Java(Hibernate)

website URL: hellogwu.com (more than 5000 users)

EDUCATION

George Washington University, Washington city, DC, GPA 3.96/4.0

8/2016~12/2017

Master of computer science

Wuhan University, Wuhan, China, GPA 3.5/4.0

9/2010~7/2014

Bachelor of software engineering

COURSEWORK

Design & Analysis of Algorithm

UNIX System Programming

Advanced Machine Learning

Database Management Systems

Computer Networks

Advanced Operating Systems

SKILLS

5-year development experience

Language: C/C++, Java, Shell, Python, PowerShell, Assembly, SQL, Html

3-year SRE experience

Experience with large scale distributed System (more than 10000 machines serving 50 countries)

Experience with AWS, Hadoop, VMware, Xen, Redhat