

Zeng Ping

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Degree: Master

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English Skill: CET6

Education:

2014.09–2017.06	High Performance Computing	Master	Institute of Computing Technology Chinese Academy of Sciences
2010.09–2014.06	Software engineer	Bachelor	Beijing University of Posts and Telecommunications;

Internship:

iQIYI	Ad backend	Data Analysis Intern	2013.11 – 2014.4
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Main Project: Ad Inventory forecast

A Project that serve for iQiyi ad inventory forecast backend system. It is based primarily on the number of impressions and clicks of the video ads, Also take holidays, hot drama and other factors in to consideration.

- Optimize original forecast program and improve forecast accuracy
- Propose some new forecast methods

Project & Awards:

RNA-Seq workflow optimize	2015.10 – Present
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RNA-Seq workflow mainly is transcriptome sequencing process. It Primarily responsible for optimizing each step of the process, improving concurrency of each step, and accelerate the hot calculation function with SIMD instructions.

- **Cufflinks** Change the thread organization, add the thread pool and task queues to improve thread concurrency.
- **Bwa:** Use of Intel SIMD instructions to accelerate the time-consuming functions.

Libpcap-based network sniffer	2014.10 – 2014.12
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The project is based on libpcap library to develop network sniffer, capable of displaying the captured LAN packets, and making the appropriate analysis and statistics. The main functions:

- Be able to monitor all Network cards data
- Capture data packets flowing through the Network card, and can set up filtering rules to filter packages.
- Be able to parse the protocol data and statistics

Design and implementation of auto tuning framework for Stencil	2013.11 – 2014.5
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A study for scientific computing. Stencil is focused on the numerical solution of the partial differential equations in numerical calculation. It is a very important mode of calculation. The project is a kind of abstract domain-specific language for the program to be optimized. First we extract the features of a stencil kernel, and use data mining methods to gain knowledge and then find the suboptimal parameters. The code is automatically tuning.

Other main projects

- **Letv 9.19 activities:** To develop a small game backend based on J2EE, responsible for statistic scores of users and coupon distribution (Java) 2014.9
- **The portal website development:** <http://goo.gl/eqHRP0> <http://goo.gl/vsnpxA> <http://goo.gl/vaPMvD> (PHP)
- **2015 Baidu Mid-Autumn Festival:** <http://goo.gl/hPWk8u> (H5)

Awards

- Service outsourcing innovation and entrepreneurship contest for College Students. Recipient, Second Prize 2013.8
- Mathematical Contest In Modeling Recipient, Finalist 2013.4
- The National Mathematical Modeling Contest Recipient, city's first prize 2012.10

Skills:

- Familiar programming language: C/C++. Used languages: JAVA (J2EE), PHP, HTML, JavaScript, c#, Python, R, Shell, SQL
- Development environment: Linux, Windows
- Main courses: Operating System, Data Structure, Computer Network, Computer Architecture, etc
- Familiar with algorithms and data structure.