

# YUDI ZHOU

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## EDUCATION

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**Texas A&M University**, College Station

Graduation in Dec 2014

M. Eng. in Computer Engineering, GPA: 3.69/4.00

**Hong Kong Polytechnic University**

B. Eng. in Electronic & Information Engineering

## SKILLS

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Language: Java, C/C++, Python, SQL, Perl, Git, HTML/CSS.

Technique: Object-oriented programming, MPI, Django, MySQL, Linux.

Courses: Algorithm; Database; Operating System; Parallel Computing; Web Development;  
Machine Learning; Computer Architecture.

## PROJECTS

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### Parallel Computing

Dec 2014

*A Jacobian matrix solver using MPI techniques in Cpp*

- Developed parallel computing on a serial Jacobian solver using MPI technique.
- Optimized an industrial reservoir simulator using this solver and achieved a speedup of 120.

### Web Development, Information Retrieval

Oct 2014

*A game recommender for Steam users using Django*

[gamesyoumiss.herokuapp.com/recom](http://gamesyoumiss.herokuapp.com/recom)

- Built a web application to recommend games based on user and its friends' gaming information.
- Retrieved gaming info from users' Steam profile via Steam Web API.
- Implemented a recommender using Naïve Bayes in Python and trained it with gaming info.
- Designed and built a database to store users' profile retrieved from Steam using Postgres.
- Deployed on Heroku and handled long-time user request using background job.

### Machine Learning

Jun 2014

*A classifier for signal quality and type estimation*

- Proposed a neural-network-based technique to estimate optical signal type and quality.
- Conducted simulations to achieve 98% accuracy on signal prediction.

### Database Design, JDBC

Dec 2013

*A database application for graduate student management*

- Designed and developed database in MySQL and generated test patterns to verify its functions.
- Implemented a moderate Java front-end interface to allow clients to access the database.

## WORK EXPERIENCE

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**TianJi Media Group, Yesky.com, China**

Summer 2013

*Software Engineer Intern*

- Responsible for design a ranking algorithm for trending product.
- Built a prototype ranking application for digital products in Java.