

# Zhongpeng Lin

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## Education

### University of California

Santa Cruz, California, USA

PhD, Computer Science, GPA: 3.89/4.00

2010 – now

- Research areas: Software evolution, software repository mining, procedural content generation
- Courses: *Information Retrieval, Machine Learning, Artificial Intelligence, Analysis of Algorithms, Mathematical Statistics*

### Institute of Software, Chinese Academy of Sciences (ISCAS)

Beijing, China

MS, Computer Software and Theory, GPA: 87.9/100

2007 – 2010

- Research areas: software cost estimation, software bug prediction
- Courses: *Advanced Data Mining, Advanced Software Engineering*
- Honors and Awards: *Excellent Student* of 2009, available to top 15% graduate students

### Xiamen University

Xiamen, China

BS, Software Engineering, GPA: 90.0/100

2003 – 2007

- Honors and Awards
  - Excellent Graduate* of 2007, available to top 3% graduates by GPA each year
  - China Construction Bank Scholarship* of 2006 and 2007, available to top 5% by GPA undergraduate students each year
  - Xiamen University First-Rank Scholarship* of 2004 and 2005, available to top 5% by GPA undergraduate students each year

## Technical skills

**Languages:** Java (JUnit, JSP, Servlet, Eclipse RCP/JFace), C, Python, Ruby (ROR), JavaScript (jQuery, Raphael.js, Three.js, Jasmine), Objective-C (iOS), C#, C++

**Databases:** MySQL, Microsoft SQL Server, SQLite, PostgreSQL, Oracle

**Operating Systems:** Windows, GNU/Linux (Ubuntu, CentOS), OS X

**SCM:** Git, Subversion

## Experience

### Research

#### University of California

Santa Cruz, California, USA

Graduate Student Researcher

2012

Worked on a NASA funded project *Understanding the Design Space of Mixed Initiative Robot Design Tools*, developed the prototype in JavaScript. It used Raphael.js to sketch the robot chassis in 2D, and Three.js to render it in 3D. We built our own JavaScript MVC architecture and event-driven infrastructure in this project. We also wrote automatic tests using the Jasmine framework

#### University of California

Santa Cruz, California, USA

Graduate Student Researcher

2010 – 2011

Developed extensions to the *MininGit* open source project in Python, and maintained it as the primary reviewer

### Teaching

#### University of California

Santa Cruz, California, USA

Teaching Assistant

2011

I TA'ed in the following courses: *Machine Learning and Data Mining*, *Introduction to Database Management Systems*, and *Introduction to Computer Science*

## Working.....

### **eleGreen**

**Walnut, California, USA**

*Part-time iOS Developer*

2012

Developed an iOS app for users to trade-in their smart phones and tablets and track their trade-in requests. It uses multi-threading to communicate with eleGreen's web API, and Core Data to provide a local cache. The app can be found on Apple's App Store at <https://itunes.apple.com/us/app/elegreen/id568587701>

### **Playcrab Ltd**

**Beijing, China**

*Part-time Software Engineer*

2009 – 2010

Used Hemlock to develop an infrastructure for peer-to-peer communication in a social network game. The communication used the XMPP protocol

### **Hoolai Social Game Ltd**

**Beijing, China**

*Part-time Software Engineer, Database Administrator, System Administrator*

2008 – 2009

- Participant in the development of several social network games using Ruby On Rails and Adobe Flex, one of which had more than 600 thousand Daily Active Users at its peak
- Setting up and maintaining a web infrastructure comprised of an Nginx/lighttpd server as load balancer, and several Nginx/lighttpd servers with several Phusion Passenger processes on each server to process more than 10 million HTTP requests every day
- Configuration and optimization of the MySQL and Memcached servers

### **Lab of Internet Technologies, ISCAS**

**Beijing, China**

*OA Assistant*

2008

Responsible for the administration and maintenance of its Office Automation System, originally developed using ASP:

- Rewrote some modules and added some features using ASP.NET and C#
- Modified a few HTML pages to support browsers besides Internet Explorer

### **Xiamen Shepherd Co., Ltd**

**Xiamen, China**

*Intern*

2007

Used ROR and adopted Extreme Programming practices to develop several projects, including a Agile development management system AgilePlanner and an on-line music composition website ComposeItYourself.

## Publications

Chris Lewis, Zhongpeng Lin, Caitlin Sadowski, Xiaoyan Zhu, Rong Ou, and E. James Whitehead Jr. Does Bug Prediction Support Human Developers? Findings from a Google Case Study. In *Proceedings of the 35th International Conference on Software Engineering*, San Francisco, CA, 2013. IEEE.

Caitlin Sadowski, Chris Lewis, Zhongpeng Lin, Xiaoyan Zhu, and E. James Whitehead. An empirical analysis of the FixCache algorithm. In *Proceeding of the 8th working conference on Mining software repositories - MSR '11*, page 219, New York, New York, USA, May 2011. ACM Press.

Jing Du, Ye Yang, Zhongpeng Lin, Qing Wang, Mingshu Li, and Feng Yuan. A Case Study on Usage of a Software Process Management Tool in China. In *Proceedings of the 2010 Asia Pacific Software Engineering Conference, APSEC '10*, pages 443–452, Washington, DC, USA, November 2010. IEEE Computer Society.

Zhongpeng Lin, Fengdi Shu, Ye Yang, Chenyong Hu, and Qing Wang. An empirical study on bug assignment automation using Chinese bug data. In *2009 3rd International Symposium on Empirical Software Engineering and Measurement, ESEM '09*, pages 451–455, Washington, DC, USA, October 2009. IEEE.