# **Zhongpeng Lin**

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## Technical Skills

Bazel, Go, Python, Java

## **Experience**

Software Development.....

Bazel's rules\_go and Gazelle open source projects

Maintainer 2021-present

Uber Technologies, Inc

Seattle, WA, USA

Seattle, WA, USA

Software Engineer

2017-present Building the monolithic code repository for all Go services and libraries in Uber.

- Developing and optimizing Bazel and its build rules for Go
- o Developing Gazelle and its extensions to generate Bazel rules
- o Designing and implementing the collection, calculation and reporting for code coverage
- Optimizing Go's official mock generator
- Developing dependency manager based on Go modules
- o Developing macros and adding Go support to Facebook Buck project

### **Microsoft Corporation**

Redmond, WA, USA

Software Engineer

2015-2017

Building statistical models for the Windows build system, in order to detect abnormal processes, identify factors affecting build time, provide estimates for build time, and propose measures for Windows build performance at different granularity

**Microsoft Corporation** 

Redmond, WA, USA

SDET Intern

2014

Built machine learning models to predict Windows build time and analyzed factors are most likely to cause build breaks

Google Inc. Mountain View, CA, USA

Software Engineering Intern

Developed a JavaScript fuzzer that generates random JavaScript to test Closure Compiler.

Student Volunteer

The International Conference on Mining Software Repositories (MSR)

Member of Program Committee

2017, 2020

Information and Software Technology

Reviewer

2014 - 2015

Reviewed manuscript No. INFSOF-D-14-00238 and INFSOF-D-14-00238R1

The Working Conference on Mining Software Repositories (MSR)

Reviewer

2014, 2012

Reviewed Submission #10 and #19 in 2014, Submission #46 and #55 in 2012

The 35th International Conference on Software Engineering (ICSE 2013)

San Francisco, CA

The 25th IEEE International Conference on Software Maintenance Subreviewer

2009

2013

Teaching.....

#### University of California

Santa Cruz, CA, USA

Teaching Assistant 2011

Courses: Machine Learning and Data Mining, Introduction to Database Management Systems, and Introduction to Computer Science

## **Education**

#### University of California

Santa Cruz, CA, USA

PhD, Computer Science, GPA: 3.89/4.00

2010 - 2015

- o Thesis topic: Understanding and Simulating Software Evolution
- o Research areas: Software evolution, software repository mining

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

**Beijing, China** 2007 – 2010

MS, Computer Software and Theory

Xiamen, China

BS, Software Engineering

Xiamen University

2003 – 2007

## **Publications**

Zhongpeng Lin. Building Uber's Go Monorepo with Bazel. In *Uber Engineering Blog*. https://eng.uber.com/go-monorepo-bazel, 2020.

Kate Compton, Heather Logas, Joseph C. Osborn, Chandranil Chakrabortti, Kelsey Coffman, Daniel Fava, Dylan Lederle-Ensign, Zhongpeng Lin, Joe Mazeika, Afshin Mobramaein, Jonathan Pagnutti, Huascar Sanchez, Jim Whitehead, Brenda Laurel and John Murray. Design lessons from binary fission: A crowd sourced game for precondition discovery. In *Proceedings of 1st International Joint Conference of DiGRA and FDG*, Dundee, Scotland, UK, 2016.

Zhongpeng Lin. *Understanding and Simulating Software Evolution*. PhD thesis, University of California, Santa Cruz, December 2015.

Zhongpeng Lin and Jim Whitehead. Why power laws? an explanation from fine-grained code changes. In *Proceedings of the 12th Working Conference on Mining Software Repositories (MSR 2015)*, pages 68–75, Florence, Italy, May 2015.

Kate Compton, Dylan Lederle-Ensign, Zhongpeng Lin, Joe Mazeika, Afshin Mobramaein, Jonathan Pagnutti, Huascar Sanchez and Jim Whitehead. Botprint: Casual robotic evolution. In *Computational Creativity and Games Workshop*, Park City, UT, USA, 2015.

Zhongpeng Lin and Jim Whitehead. Using fine-grained code change metrics to simulate software evolution. In *Proceedings of the 5th International Workshop on Emerging Trends in Software Metrics* (WETSoM 2014), pages 15–18, Hyderabad, India, June 2014. ACM Press.

Heather Logas, Jim Whitehead, Michael Mateas, Richard Vallejos, Lauren Scott, Dan Shapiro, John Murray, Kate Compton, Joseph Osborn, Orlando Salvatore, Zhongpeng Lin, Huascar Sanchez, Michael Shavlovsky, Daniel Cetina, Shayne Clementi and Chris Lewis. Software verification games: Designing Xylem, the code of plants. In *Proceedings of the 9th International Conference on the Foundations of Digital Games* (FDG 2014), 2014.

Zhongpeng Lin, Chris Lewis, Sri Kurniawan, and Jim Whitehead. Why players start and stop playing a Chinese social network game. *Journal of Gaming & Virtual Worlds*, 5(3):307–328, 2013.

Zhongpeng Lin. Understanding and simulating software evolution. In *Proceedings of the 35th International Conference on Software Engineering (ICSE 2013)*, pages 1411–1414, San Francisco, CA, USA, May 2013. IEEE/ACM.

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 (ICSE 2013)*, pages 372–381, San Francisco, CA, USA, May 2013. IEEE/ACM.

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 2011), pages 219–222, Honolulu, HI, 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*, pages 443–452, Sydney, Australia, 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 *Proceedings of the 3rd International Symposium on Empirical Software Engineering and Measurement*, pages 451–455, Lake Buena Vista, FL, USA, October 2009. IEEE.