YINLIN DENG

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EDUCATION

University of Illinois Urbana Champaign

August 2021-present

September 2017-June 2021

Ph.D. Student in Software Engineering

Peking University
Bachelor of Science in Computer Science, Turing Class

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• Enrolled in **Turing Class** • GPA: 3.76/4.0 (top 10%)

RESEARCH INTEREST

Software Engineering, and its synergy with Machine Learning, Programming Languages, and Formal Methods.

PUBLICATIONS

Free Lunch for Testing: Fuzzing Deep-Learning Libraries from Open Source

Anjiang Wei, Yinlin Deng, Chenyuan Yang, and Lingming Zhang

Proceedings of the IEEE/ACM International Conference on Software Engineering, 2022

Coverage-Guided Tensor Compiler Fuzzing with Joint IR-Pass Mutation

Jiawei Liu, Yuxiang Wei, Sen Yang, Yinlin Deng, and Lingming Zhang

Proceedings of the ACM SIGPLAN Conference on Object-Oriented Programming Systems, Languages, and Applications, 2022

SELECTED HONORS & AWARDS

Gold Medal in the International Collegiate Programming Contest(ICPC) Asia-East Continent Final contest 2019

Gold Medal in the ICPC Asia Regional Contest Nanjing Site 2019

Silver Medal in the ICPC Asia Regional Contest Qingdao Site 2017

University-level scholarships and merit student in Peking University

PROFESSIONAL EXPERIENCE

Microsoft Research, Asia

June 2020-Jan 2021

Research Intern, Data Knowledge Intelligence (DKI) Group

Beijing, China

Developed advanced table range detection techniques to understand spreadsheet data for intelligence service

- Researched on and improved table detection with machine learning and deep learning algorithms
- Developed effective and efficient code for tech-transfer to Microsoft products like Excel

Google

July 2019—September 2019

Student Training in Engineering Program Intern

Beijing, China

Researched on static model compression to improve efficiency in Federated Learning

- Researched and implemented model compression algorithms using probabilistic encoders and decoders.
- Set up and conducted large-scale experiments; Analyzed and visualized the results.
- Contributed to TensorFlow Model Optimization Toolkit

Peking University

September 2019-January 2020

Teaching Assistant

Beijing, China

TA in the course Introduction to Computer Science

ADDITIONAL INFORMATION

Language English (fluent), Chinese (native), German (conversational)

Technical Expertise C++, C#, Python, Java, JavaScript, TensorFlow, Latex

Interests Volleyball and running