**PERSONAL INFO**

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**WORKING EXPERIENCE**

**Autodesk China Research Institute, Home Team**

QA testing intern (2015/6 – 2016/4)

**Oracle Shanghai Research and Development Center, Berkeley DB Team**

Software Developer 2 (2016/6 – 2019/5)

Database Kernel Development

* Maintain BDB product when there has any update on the database code, header file, structure, methods, and constants information (here, including all statistics fields), and update the corresponding technical document.
* Maintain any version update of dependent software, thrift, log4j, and slf4j, including the interface functions and data types in the thrift’s IDL file and scripts. Meanwhile, maintain compilation errors and Tcl test errors. ( Including the scripts that used to generate executable binary files. )
* Run Open Source Software Fuzzing test tool AFL to generate the crashed database file and call bdb utility db\_verify on crashed binary database file by using Debug Tool GDB. According to stack information of core dump file, try to analyze the code routine and locate the place where the issue happens and find out the reason why the crash happens, propose and discuss the solution with others.

1. Fix the wrong representation of ith entry in the database page.
2. Fix the issue that the index pointer exceeds the legal range in the array.
3. Fix the issue that the ith entry exceeds the legal range on the database page.

* For Berkeley DB utility tools db\_tuner and db\_convert, add command-line compilation parameters. Ensure that when calling utility on the database file to tuner or convert the database file, add the verify function into the utility db\_tuner and db\_convert to ensure that before tuner or convert the database file, there has no problem about the database file. Also update the corresponding Tcl test.

Database Kernel Testing

* Realize test cases based on Tcl, and test Berkeley DB API and related functions.
* Maintain Jenkins test framework, and add independent test cases into the current Jenkins test framework.
* Run Open Source Software Fortify on database kernel to execute white-box test, check the generated report and make comments to ensure the code safety of Product.

**Ab – Ovo China**

Quintiq Specialist (2019/8 – Now)

TKSE

* The TKSE project cooperates with Thyssenkrupp. The project is mainly to implement and deployment Steel Model by using Quintiq Platform. My main task is to analyze the requirement from BC and try to figure out the requirement, discuss the solution with others and finish the final coding.

**EDUCATION**

**East China Normal University, Computer Center**

Computer Application Technology (2013/9 - 2016/6)

**Shanghai University of Electric Power**

Academy of International Exchanges (2009/9 - 2013/6)

* 2010/9 - 2011/6 Academy of International Exchanges Third-class scholarship
* 2011/9 - 2012/6 Academy of International Exchanges Second-class scholarship

**SKILL**

* C (skilled), C++ (skilled), Python (understood), C# (understood), Java (understood), SQL (understood)
* Languages: English CET-6, Japanese N2