Xianting Lu

Programmer, write blog sometimes

○ 知乎 in 脉脉

Evan_L00@qq.com
+8618667024392
[CV]

About Me

Focusing on high stable/parallel/distributed server development with C++/Rust, enterprise search, and OLAP.

Maintained 4M+ line of C++ code, according to enterprise Github, I have contributed 150k+ LOC (C++/NodeJs/Python/Rust) and fixed 500+ defects.

Translate Effective Debugging, writed two series: Rust 系列：正确编程的思考模型, C++驿站

Programming Languages: C++/Rust/Java/, Python/Typescript/Javascript, etc.

Tools: kubernetes/Lucene/Container/gdb/CoreAnalyzer/Message Queue/Bash, etc.

Experiences

- [2021 July – Now] MicroStrategy China Technology Center, Senior Engineer, C++ infrastructure, +Rust, +Python, etc.
  - Design and implement the OCR Service(One comment running integration test) which dispatches tests into machine cluster by one comment, and is adopted by more than 65 engineers in their daily development and saving thousands of engineering hours.
  - Lead the Time zone aware data analysis object models (serialize/deserialize infrastructure) to bring the capacity customers requested for a long time into the MicroStrategy platform and ,.
  - Implement and patent the Systems and Methods for Server Crash Prevention [3rd Author, in-process] to eliminate the hard-to-reproduce server crashes.
  - Design and implement the async infrastructure for MicroStrategy package manipulations.
- [2019 Feb – 2021 July] MicroStrategy Head Quarter, Virginia Tysons, Engineer, +NodeJs, +Kubernetes, etc.
  - Core engineer of the next generation global search microservice with Elastic Search, research Kafka/Rabbit for indexing, design and implement the modules: query parser, search autocompletion, i18n support, user mention, etc.
  - Containerized MicroStrategy legacy integration tests with K8S, and build the server CAT (Containerized ABA Test Manager) with NodeJS to provide consistent testing results, quick deployment (minutes vs hours), high utilization rate, resource saving, etc.
  - Lead and implement the memory governing component for high stable services(Patented, 1st author) and refine the high parallel Job infrastructure to provide job memory governing and throttling protection functionalities to prevent server crashing from malicious or high-volumes loads.
  - Lead and implement the tool to help the elite customer Inditex to upgrade to MicroStrategy latest products. The tool is integreated into products to serve more customers.

document store.

- ○ MicroStrategy Metadata management and several key components maintenances like Drilling Data, Security.
- ○ MicroStrategy Search Engine (Lucene as core) enhancements and maintenances.
- ○ Server crashes analysis like multithread issues, memory corruption(double free, use after free, etc.).
- ○ C++ memory detections and summarized 10 memory patterns and educated the whole company engineers.

Education

- **Southeast University**
  Sept 2014 – 2017, Information and Communication Engineering
- **Tianjin University**
  Sept 2010 – 2014, Communication Engineering
- **Nankai University**
  2012–2014 Minor, School of Economics

Open Source Projects

→ Full list

Rabot
A intelligence robot handle all the duplicates, tedious works for me, like record time sheet, triggering integration test, etc. With it, I can focus my work and free from unnecessary interruptions.

Core Analyzer Core maintainer
A proved powerful tool to debug memory issues. By parsing the memory image of a process's core dump file or its live address space, core analyzer is able to scan the target's heap data for memory corruption, search the whole address space for data object's references, or analyze memory pattern. It is thorough, labor-free, and insightful.

Melt Subtitles
Translating unknown words in video subtitles. With it, you can learn English while watching movies/TV series.

Github Webhook Gateway

Patents & Certificates

Systems and methods for job-level memory governing [1st Author]

Systems and Methods for Server Crash Prevention [3rd Author, in-process]

Certified Kubernetes Application Developer (CKAD)

My Top Tech Blogs

- Effective Debugging zh
- 你还在用GDB调试程序吗?
- Rust 系列：正确编程的思考模型
- 什么是move? 理解C++ Value categories，move， move in Rust
- 玩了分手厨房，我理解了协程是什么
- 两大绝招debug core dump?
- 如何debug crash 系列

Last Updated: 6/4/2022, 8:56:46 PM