



## Xianting Lu

Programmer, write blog sometimes



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[\[CV\]](#)

## About Me

Problems solver, focusing on enterprise search, OLAP and high stable/parallel server development with C++/Rust.

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

Tools: kubernetes/Container/gdb/CoreAnalyzer/Bash, etc.

## Experiences

- [2021 July – Now] MicroStrategy China Technology Center, Senior Engineer
  - Lead the Time zone aware data analysis object models to bring the capacity customers requested for a long time into the MicroStrategy platform.
  - Co-authorized the OCR (One comment running integration test) which is adopted by more than 60 engineers in their daily development and saving thousands of engineering hours.
  - Implement and patent the Systems and Methods for Server Crash Prevention [3rd Author, in-process] to eliminate the hard-to-reproduce server crashes.
- [2019 Feb – 2021 July] MicroStrategy Head Quarter, Virginia Tysons, Engineer
  - Core engineer of the next generation global search with Elastic Search, design and implement the modules: query parser, search autocomplete, 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.
- [2017 May – 2019 Feb] MicroStrategy China Technology Center, Engineer
  - 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.).

Note: Contributed 150k+ LOC and worked on 500+ defects.

## Education

- **Southeast University**  
Sept 2014 – 2017, Information and Communication Engineering
- **Tianjin University**  
Sept 2010 – 2014, Communication Engineering

## Open Source Projects

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[→ 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.

## Patents & Certificates

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[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

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- [你还在用GDB调试程序吗？](#)
- [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？](#)
- [Rust那些难理解的点](#)