

STEPHEN BRENNAN

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EXPERIENCE

Oracle, Redwood Shores, CA

Principal Member of Technical Staff, Linux Sustaining, June 2022 – Present

- Implemented support for Compact Type Format (CTF) in the [drgn](#) debugger.
- Created & open-sourced a [CLI](#) for Oracle Cloud Infrastructure used by over 100 engineers internally.
- Led project to create [corelens](#), an open-source tool which automatically extracts diagnostic information from a running kernel or core dump.
- Debugged and resolved customer bugs in the Linux kernel VFS & printk subsystems.
- Wrote technical articles for the [Oracle Linux Blog](#) about the Linux kernel & debugging.

Senior Member of Technical Staff, Linux Sustaining, May 2020 – June 2022

- Developed & backported fixes for hangs, panics, and performance issues in the Linux kernel's VFS & printk subsystems, as well as the procps-ng package.
- Contributed new features to debugging tools such as perf and drgn.

Amazon Lab126, Sunnyvale, CA

Embedded Software Engineer, February 2020 – May 2020

- Created build automation for monitoring embedded code & static memory usage.

Yelp, San Francisco, CA

Software Engineer, Spam Team, October 2016 – January 2020

- Led project to improve XGBoost model impacting millions of reviews.
- Built real-time streaming system for filtering and forwarding hundreds of messages per second to a third party via Amazon SQS.
- Migrated Hadoop map-reduce jobs to Apache Spark, reducing cost and runtime.

Intern, Spam Team, May 2016 – August 2016

- Improved user security by detecting & blocking messages containing dangerous URLs.
- Migrated credit card transaction blocking system to a service oriented architecture.

LECO, St. Joseph, MI

Intern, Separation Science, May 2013 – August 2013

- Implemented GPU-accelerated graph traversal feature in C++.
- Wrote build scripts in Python and developed Windows Installers.

EDUCATION

Case Western Reserve University, Cleveland, OH

Master of Science, Computing and Information Science, August 2017

Bachelor of Science, Computer Science, May 2017

PUBLICATIONS

Improving Communication Through Overlay Detours: Pipe Dream or Actionable Insight? *Stephen Brennan & Michael Rabinovich, IEEE International Conference on Distributed Computing Systems, July 2018*