

Bryan Bugyi

Software Engineer

<https://linkedin.com/in/bryan-bugyi>

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bryanbugyi34@gmail.com

(609)500-7081

Summary

I am a Software Engineer with a very “systems”-oriented skill set. In particular, I have the following areas of expertise / specialization: **Python** programming, **Linux**, and **Networking** (TCP/IP)

Education

- Rutgers University** New Brunswick, NJ
B.S. Computer Science (minor in Mathematics) 2015 - 2019

Industry Experience

- Bloomberg L.P.** Manhattan, NY
Site Reliability Engineer (SRE) / Senior Software Engineer January 2021 - Current

SREs at Bloomberg use both software and systems engineering to build and reliably run their production systems. I am a founding member of the Compliance SRE (CSRE) team. A few notable achievements associated with my work at Bloomberg are listed below:

 - Lead Software Engineer for most software projects (primarily Python) on the CSRE team.
 - Maintainer of Bloomberg’s community cookiecutter for Python projects.
 - Founder of new “ChangeLog Driven Release (CLDR)” methodology (alpha testing across Compliance department).
- Edgestream Partners, L.P.** Princeton, NJ
Software Engineer May 2019 - January 2021

As a Software Engineer on the Production team at Edgestream, my work centered around the improvement / maintenance of Edgestream’s production trading system. This system is Linux-based (Red Hat) and is written primarily in Python. A few notable achievements associated with my work at Edgestream are listed below:

 - Integrated pylint into a codebase with well over a million lines of existing code. As the lead on this project, I was responsible for building several non-trivial tools to aid in making this integration a success.
 - Made several large-scale improvements to the production department’s in-house testing framework/runner.
 - Lead developer of Edgestream’s investor-facing web portal, which was built using Python’s Django web framework.
- Comcast** Mount Laurel, NJ
Tier III Technical Support 2011 - 2016

Tier III Technical Support at Comcast was a liaison group that worked to resolve chronic customer issues as well as outages which were impacting multiple customers. This involved troubleshooting Comcast’s network to resolve the issue directly or, failing at that, escalating to the appropriate Engineering group and working with them to diagnose and resolve the issue cooperatively. Some of the other responsibilities associated with this role are listed below:

- Monitored for large-scale network outages by aggregating and analyzing customer issue data from our ticketing system.
- Used Python scripting to automate frequent department tasks (e.g. parsing spreadsheets, opening/closing tickets, information retrieval).

Skills

- **Programming Languages:**

To indicate my level of proficiency with a language, I have used “lines-of-code (*LoC*) written” as my key metric, though I admit this provides at best an incomplete picture:

PYTHON $\geq 100,000$ <i>LoC</i>	BASH $\geq 20,000$ <i>LoC</i>	C/C++ $\geq 20,000$ <i>LoC</i>
PERL $\geq 5,000$ <i>LoC</i>	RUST $\geq 5,000$ <i>LoC</i>	VIMSCRIPT $\geq 5,000$ <i>LoC</i>
HASKELL $\geq 1,000$ <i>LoC</i>	JAVA $\geq 1,000$ <i>LoC</i>	JAVASCRIPT $\geq 1,000$ <i>LoC</i>

- **Frameworks:** Django, FastAPI, Flask, Pluggy, ZeroMQ
- **Technologies:** Docker, Git, L^AT_EX, Linux, PostgreSQL, Redis, Vim

Open Source (GitHub) Projects

- **python-boltons/*** Python
Python libraries made available as “boltons”; We think they should be “builtins”. 2021–present
 - Founder and lead developer of this project / series of projects. Example bolton libraries:

* cc-python (cookiecutter)	* eris (error-handling lib)	* logrus (logging lib)
* clack (config CLI lib)	* hush (plugin secrets lib)	
- **bbugyi200/*** Python, Rust, Shell
Miscellaneous projects that I’ve open-sourced on GitHub. 2017–present
 - greatday (GTD todo manager) — Python
 - cldr (ChangeLog Driven Releases) — Python
 - shv (Shell History Viewer) — Rust, Shell
- **psf/black** Python
The uncompromising Python code formatter. 2019–2021
 - Improved the way black handles strings (<https://github.com/psf/black/pull/1132>).
 - Non-trivial contribution consisting of ~3,500 lines of code additions/modifications.
 - Led to the closing of five unrelated GitHub issues (opened by five different developers at different times).
- **bbugyi200/funky** Python, Shell
Makes shell functions easier to define, more flexible, and more interactive. 2017–2021
 - Well received by the developer community (over 500 stars on GitHub).
 - Multiple outside contributions have been accepted (e.g. user submitted issues/bug reports and code contributions).
- **bbugyi200/cookie** Shell
A Template-based File Generator. 2018–2019
 - Well received by the developer community (over 250 stars on GitHub).
 - Multiple outside contributions have been accepted (e.g. user submitted issues/bug reports and code contributions).