

Daniel Mikhail

danmikhail@gmail.com

mikhaidn.github.io/Plokmin

Education

- 2020 - 2024** **Masters of Computer Science**; University of Illinois at Urbana-Champaign
- 2014 - 2018** **BSc, Computer Science**; Rose-Hulman Institute of Technology (*Terre Haute, IN*)

Experience

- 2018 - 2021** **Software Production/Development Engineer** at Yahoo! (*Champaign, IL*)

Served as the production point of contact for components of Yahoo!'s DSP advertisement pipeline and tools built primarily on the Hadoop Ecosystem or Amazon Web Service.

- Communicate blockers in-between developer teams, like new a security requirement (COPPA, GDPR, etc.) or data schema change that was deployed ahead of schedule.
- Formed a high level intuition of the pipeline to catch potential SLA misses early, and pass on tribal knowledge to newer Production Engineers.
- Transitioned to a developer role in 2020, implemented a web-app that aggregates statuses for both streaming and batch-processing pipelines

- 2016 - 2018** **Resident Assistant** at Rose-Hulman Institute of Technology (*Terre Haute, IN*)

- Resident Assistant of the Year (2016-17)

Side Projects

Details of everything listed below can be found at mikhaidn.github.io/Plokmin

- Open Source Research** Increased the documented search space of two integer sequences (A100570 and A241922) on the OEIS by 6 orders of magnitude by taking advantage of bitmapping, multithreading, and other computational gimmicks

- Knowledge Dumps** Beginner-friendly guides I've made over the past year, inspired by the FAQs I get
- **Macarons** - A high level guide to making French Macarons
 - **The Unix Shell** - A simplified list of goals for learning the Unix Shell
 - **STEM College Prep** - A collection of my favorite pre-college STEM resources

Skills

- **Web Development:** Django(Python), MySQL, JavaScript
- **Unix Admin:** Networking, Bash Scripting, Data Management
- **DevOps:** Containers (Docker), CI/CD (Jenkins)
- **Scientific Computing:** MATLAB, R, SciPy (Python)
- **Hobbies:** Bouldering, Competitive Smash Bros., Violin, Bar Trivia