

# 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 multiple lambda-architecture pipelines

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

## Side Projects

Details of everything listed below can be found at [mikhaidn.github.io/Plokmin](https://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 Python/Math 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:** Boulderling, Competitive Smash Bros., Violin, Bar Trivia