

# Daniel Mikhail

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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 Inc. (*Champaign, IL*)

Served as the contact point for developers and customers alike for components of Yahoo's DSP advertisement pipeline (Hadoop and AWS)

- Communicate blockers to producers and customers of our data, while also developing solutions to minimize their impact (e.g. Safely updating VMs impacted by OS-level vulnerabilities, create Oozie jobs to reprocess select timestamps, etc.)
- Supplemented newer Production Engineers' training with informal tribal knowledge lessons on Linux and Hadoop speeding up "on-call" readiness by about a month
- Increased the error detection rate by 10x on a new set of pipelines through a web-app that presented aggregated status checks (Django(Python), Celery, Kafka)

- 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](https://mikhaidn.github.io/Plokmin)

- Open Source Research**      Increased the documented search space of two integer sequences by 1000x with the help of bitmapping, multithreading, and memoization (A100570 and A241922 on the OEIS)

- Knowledge Dumps**      Beginner-friendly guides I've made over the past year, inspired by some FAQs
- Topics include: (French) Macarons, The Unix Shell, and STEM College Prep

## Skills

- **Web Development:** Django(Python), MySQL, JavaScript
- **Unix Admin:** Networking, Bash Scripting, Data and Key Management
- **DevOps:** Containers (Docker), CI/CD (Jenkins)
- **Scientific Computing:** MATLAB, R, SciPy (Python)
- **Cloud and Distributed Systems:** Hadoop (Oozie, HBase, Pig, Spark), AWS (EC2, S3, Redshift, KMS)