Daniel Mikhail

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▬▬▬▬ 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

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)