

# ROSS A. MIKULSKIS

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## EDUCATION

### Boston University, Boston

*M.S. Computer Science, 3.86*  
*B.A. Computer Science, 3.65*

September 2021 - May 2025

### Boston Latin School, Boston

September 2015 - June 2021

## PROFESSIONAL EXPERIENCE



### ProDex Labs

*Founding Engineer*

May 2025 - October 2025

Brooklyn, NY

Optimized factory workflows using LangGraph AI-driven Monte Carlo simulations.

- Migrated a single-container system to a serverless microservices architecture capable of running thousands of parallel simulations.
- Built CI/CD Terraform pipelines to deploy into GCP and Azure client VPCs.
- Designed the React Flow factory-as-circuits visualization UI using a color scheme inspired by the NYC MTA.



### Red Hat

*Cloud Engineering Intern*

September 2023 - July 2024

Boston, MA

Conducted research and worked with the Mass Open Cloud team.

- Enhanced the Linux kernel with Dr. Orran Krieger (head of the Mass Open Cloud) to dynamically link with Redis, improving throughput by 22%.
- Implemented a serverless OpenShift proxy for Gradescope to autograde code on the Mass Open Cloud, saving professors hours of manual grading time.
- Reduced container build times for the Open Education Project by 70% using Python Mamba and GitHub Actions caching.



### Boston University

*Teaching Assistant*

September 2022 - May 2025

Boston, MA

Taught 2 semesters of Combinatorics (CS 131) and 5 semesters of Algorithms (CS 330).

- Wrote LaTeX problem sets, exam questions, and grading materials; proctored exams.
- Led weekly office hours and lab sessions.

## PUBLICATIONS

R. Mikulskis, P. West, R. Syed, and R. West. “**RT-DDS: A Real-Time Data Distribution Service for Task Pipeline Processing**”. Manuscript in preparation.

- Built a C-based software dataflow framework for dispatching service pipelines with hard real-time guarantees across Linux and the Quest RTOS.

## PROJECTS

### Bits of CS [bitsofcs.com](http://bitsofcs.com)

Published a free online computer science textbook and founded an educational non-profit with a grant from Boston University.

### SubsVocab [github.com/rkulskis/subsvocab](https://github.com/rkulskis/subsvocab)

Built a Rust command-line utility for extracting Netflix subtitles and generating Spanish-to-English vocabulary lists sorted by first appearance in the script.

## LINKS

**GitHub:** [github.com/rkulskis](https://github.com/rkulskis)

**LinkedIn:** [linkedin.com/in/rkulskis](https://linkedin.com/in/rkulskis)

**Personal Site:** [rkulskis.github.io](https://rkulskis.github.io)