

ROSS A. MIKULSKIS

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Boston, MA 02132

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

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

SubsVocab 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

LinkedIn: linkedin.com/in/rkulskis

Personal Site: rkulskis.github.io