ROSS A. MIKULSKIS

rkulskis@gmail.com | 617-690-9816
279 Bellevue Street, Boston, MA 02132

EDUCATION

Boston University, Boston September 2021 - May 2025
M.S. Computer Science, 3.86
B.A. Computer Science, 3.65

Boston Latin School, Boston September 2016 - June 2021

PROFESSIONAL EXPERIENCE

ProDex Labs May 2025 - October 2025
Founding Engineer Brooklyn, NY

Lived and worked in startup hacker house optimizing factories with AI Monte Carlo simulations.

- Migrated single-container infrastructure to serverless microservice design for running thousands of parallel simulations.
- Created CI/CD terraform scripts to deploy to GCP and Azure client VPCs.
- Designed UI for visualizing factories as circuits using colors from New York MTA.

Red Hat September 2023 - July 2024
Cloud Engineering Intern Boston, MA

Work-study internship with Red Hat Collaboratory.

- Hacked Linux with head of Mass Open Cloud, Dr. Orran Krieger, to dynamically link Redis to the kernel, improving throughput by 22%.
- Implemented a serverless OpenShift proxy for Gradescope to autograde code on the Mass Open Cloud, saving hours of time for professors pulling code and manually running scripts.
- Reduced container build time for the Open Education Project by 70% using Python Mamba and GitHub Workflow caching.

Boston University September 2022 - May 2025
Teaching Assistant Boston, MA

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

- Created LaTeX problem sets, exam problems, graded work, and proctored exams.
- Led weekly office hours and labs.

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 software dataflow framework in C 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 created an educational non-profit.

SubsVocab *github.com/rkulskis/subsvocab*
Built a Rust command-line utility for pulling Netflix subtitles and creating Spanish-to-English vocabulary lists sorted by appearance in the script.

LINKS

GitHub: github.com/rkulskis
LinkedIn: linkedin.com/in/rkulskis
Personal Site: rkulskis.github.io