

(617) 690-9816

ROSS MIKULSKIS  
<https://github.com/rkulskis>

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## EDUCATION

B.A./M.S., Computer Science, Boston University	05/2025
• Cumulative GPA: 3.73/4.0	
Boston Latin School	06/2021

## SKILLS

- **Programming Languages:** C, Python, Bash
- **Tools & frameworks:** Kubernetes, Docker, Git, Emacs, Google Cloud Services
- **Specialties:** CI/CD, Real-Time Operating Systems, Kernel Development

## PROJECTS

Omnitest	01/2025
• Built a language-agnostic testing framework for CI/CD testing	
Bits of CS Inc.	03/2023 - Present
• Founded a nonprofit, free online education.	
• Authored a college-level curricula computer science textbook, published online at <a href="https://bitsofcs.com">https://bitsofcs.com</a>	
Standalone Operating System	12/2023
• Co-developed a virtual disk in C and Assembly on intel i386 architecture with FIFO thread scheduling, inode-based file system, dual-mode system calls, and memory mapping	

## WORK HISTORY

ProDex Labs, Brooklyn, NY, Founding Engineer	05/2025 - 10/2025
• Orchestrate AI Agentic workflows which optimize manufacturing simulations	
• Deploy and manage cloud infrastructure	
Red Hat, Boston, MA, Cloud Engineer Intern	09/2023 - 07/2024
• <b>Unikernel Linux:</b> Hacked Linux with Professor Orran Krieger, PhD, to dynamically link applications to the kernel for performance gains in industrial workloads (e.g., improved Redis throughput by 22%)	
• <b>OPE Gradescope Bridge:</b> Implemented scalable OpenShift service REST API for grading student assignment code in Open Education Framework	
• <b>OPE Testing:</b> Automated testing in container build process with GitHub Actions shell and Jupyter Notebook tests; reduced container build time by 70% using mamba	
Boston University, Boston, MA, Teaching Assistant	09/2022 - 05/2025
• Taught CS 131 (Combinatorics) for two semesters and CS 330 (Algorithms) for 5 semesters	

## PUBLICATIONS

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

## HONORS AND AWARDS

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|---|---------|
| • Hariri Institute Student Excellence Award, Boston University                    | 06/2024 |
| • Student Academic Enhancement Fund (for Bits of CS Inc.), Boston University      | 10/2023 |
| • Thomas M. Menino Scholarship recipient (merit, full-tuition), Boston University | 03/2021 |
| • All-State Jazz Trumpet - 2nd place, MMEA All-State                              | 01/2021 |

## VOLUNTEER WORK

Big Brothers Big Sisters of Eastern Mass	10/2023 - 9/2025
• Volunteer Big Brother in BU community program, meet with brother every 2 weeks	
Charity Runner in Falmouth Road Race	08/2023
• Raised \$850 in funds for <i>Soccer Without Borders Boston</i>	
Fundraising Chair, Phi Kappa Tau	01/2023 - 05/2023
• Organized a concert with Berklee student-led bands with net profit of \$800	