ROSS MIKULSKIS
(617) 690-9816 www.linkedin.com/in/ross-mikulskis/ rkulskis@gmail.com

EDUCATION

Ph.D., Computer Science, Boston University **Start 09/2025**
- Specialization in Real-time Operating Systems
- Advisor: Richard West

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 (www.github.com/rkulskis)

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 (www.bitsofcs.com)

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, Boston, MA, Software Engineer - Contracted **05/2025 - Present**
- Orchestrated AI Agentic workflows which optimize manufacturing simulations
- Deployed web app to Google Cloud

Red Hat, Boston, MA, Cloud Engineer Intern **09/2023 - 07/2024**
- **Unikernel Linux**: 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%)
- **OPE Gradescope Bridge**: Implemented scalable OpenShift service REST API for grading student assignment code in Open Education Framework
- **OPE Testing**: 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

- **Hariri Institute Student Excellence Award**, Boston University **06/2024**
- **BU Student Academic Enhancement Fund**, Awarded $700 for Bits of CS textbook **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 - Present**
- 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 *Soccer Without Borders Boston*

Fundraising Chair, Phi Kappa Tau **01/2023 - 05/2023**
- Organized a concert with Berklee student-led bands with net profit of $800