(617) 690-9816

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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

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 https://bitsofcs.com

Standalone Operating System

• 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
• 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 - Present

• Volunteer Big Brother in BU community program, meet with brother every 2 weeks

Charity Runner in Falmouth Road Race

08/2023

 $\bullet\,$ 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