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**EDUCATION**

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

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**SKILLS**

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

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**WORK HISTORY**

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**ProDex Labs, Brooklyn, NY**, Founding Engineer **05/2025 - 10/2025**  
• Orchestrated AI Agentic workflows to optimize manufacturing simulations and create simulation JSONs  
• Deployed and managed terraform cloud infrastructure for GCP and Azure  
• Created core UI design for visualizing factory as a circuit with New York Subway colors theme  
**Red Hat Collaboratory, 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

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**PUBLICATIONS**

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- 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.

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**PROJECTS**

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**RT-DDS Real-Time Data Distribution Service** **08/2024 - Present**  
• Built a functional composition dataflow pub-sub framework with real-time QoS guarantees  
• Deployed to Quest-V Hypervisor to dispatch and connect services across Linux and Quest RTOS VMs  
• Wrote Domain Specific Language (DSL) parser for creating RT-DDS service DAGs  
**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** **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

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**HONORS AND AWARDS**

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- **Hariri Institute Student Excellence Award (for Red Hat OPE)**, 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**

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**VOLUNTEER WORK**

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**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 funds for *Soccer Without Borders Boston*  
**Fundraising Chair, Phi Kappa Tau** **01/2023 - 05/2023**  
• Organized a concert with Berklee student-led bands