

Russell Sotiropoulos

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Education

Tufts University, School of Engineering, Medford, MA

Bachelor of Science in Computer Science, Minor in Music Engineering. Graduated May 2023

Honors: Summa cum laude, dean's list all semesters. **GPA:** 3.98

Experience

Amazon Web Services, *Software Development Engineer I*, Boston, MA | Jul 2023 – present

- Helped optimize one of our service's memory management mechanisms, resulting in an 8x increase in capacity for IOPS and immediate performance improvements for over 200 customers.
- Continue to improve the speed, durability, and reliability of various components of our service.
- Resolve active customer-impacting issues through on-call operational work.

Tufts University, *Music Events Technical Staff*, Medford, MA | June 2021 – Nov 2022

- Coordinated technical aspects of music events like live sound setup, recording, and post-production.
- Refined raw audio and visual recordings of concerts using multimedia software, creating final products to be sent to clients.

Amazon Web Services, *Software Development Engineer Intern*, Boston, MA | May 2022 – Aug 2022

- Implemented an automated ticket handling system for addressing different alarms that are commonly triggered in various components of our service.
- Saved operators valuable time by writing code to automatically pull error logs associated with the alarm event in question and post them to the ticket comments.

Projects

Website | Aug 2020 – present

- Wrote a personal website with Jekyll that displays photos, musical interests, blog posts, and more.

MusiCode | Sep 2022 – May 2023

- Assembled a team of five students and coordinated the development of a music notation program.
- Created a new programming language in which users can write code, which is then interpreted by the MusiCode system to produce a musical score.

Cellular Automata Generator | May 2021 – Jun 2021

- Built a C++ program that produces an image of a 1D cellular automaton across many generations.
- Designed the computation of new generations to be highly customizable.

Skills

Programming languages: Python, Java, C/C++, HTML/CSS, JavaScript, PHP, ML, R, and MATLAB

Media software: Sibelius, Reaper, DaVinci Resolve, Pro Tools, Audacity, MuseScore, and Adobe CC

Other tools: Git, Linux command line, SQL, MongoDB, LaTeX, VHDL, and various AWS services