Alexander (Sasha) Shikhanovich

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Sasha Shikhanovich (sasha351.github.io)

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SUMMARY

Honors computer engineering student with a blend of programming skills, business acumen, and leadership experience with a strong academic record. Effective bi-lingual communicator motivated by new challenges, eager to contribute to innovative projects.

EDUCATION

University of Massachusetts Amherst, **Anticipated May 2026**

Bachelor of Science in Computer Engineering - GPA: 3.75

Minor in Engineering Management, Commonwealth Honors College, Dean's List

Reading Memorial High School **Class of 2022**

Honors/Awards: National Honor Society, Honor roll   GPA: 3.7/4.0

COURSEWORK

Embedded Systems, Discrete Mathematics, Circuits & Electronics, Statistics for Engineers, Python Data Structures & Algorithms, Analytical Tools for Electrical & Computer Engineers, Computational Tools for Electrical & Computer Engineers, Physics 1&2, Calculus 1&2

SKILLS

Programming Languages: Python, C, JS, CSS, HTML

Environments: MATLAB, Linux, Bootstrap, jQuery, Ajax, JSON-RP, Microsoft Suite

Hardware: Microcontrollers, Soldering, PC Assembly

Languages: Russian – conversational fluency

PROJECTS

Price Predictor with ML **Nov - Dec 2023**

- Used linear regression and gradient descent to model and estimate the price of a given house
- Programmed model in Python, utilized pandas, numpy, matplotlib, and seaborn libraries
- Optimized model to minimize runtime and increase accuracy

Personal Portfolio Project **June 2023**

- Created website featuring biographical information, personal projects, and hobbies
- Developed a firm understanding of HTML, CSS, and JavaScript, and Git
- Utilized libraries and frameworks including Bootstrap and jQuery

Home Run Simulator Project **April - May 2023**

- Utilized MATLAB to develop home run simulation script accounting for air resistance
- Implemented realistic project-development cycle with several phases of deployment after design feedback
- Supplemented mathematical calculations with graphical representations of data

EXPERIENCE

Engineering Intern, *Brown Innovations*, Boston, MA **Aug. 2023 – Sept. 2023**

- Programmed software for directional audio speaker system in JavaScript
- Redesigned user interface using CSS, Bootstrap, and jQuery
- Applied Ajax and JSON-RPC to send signals to speaker hardware before performing QA component tests
- Collaborated with a team of engineers to make design and performance decisions
- Scripts were implemented in product migration as part of a next-generation upgrade

Tutor, *Russian School of Mathematics,* Remote Position **Sept. 2022 - Present**

- Tutor students ranging from 1st to 10th grade in Math

- Instruct in topics ranging from elementary algebra to calculus while clarifying understanding of concepts in a timed, fast-paced environment

Camp Counselor, *Camp RSM,* Sunapee, NH   **June 2020 - July 2023**
- Responsible for all aspects of campers' care
- Duties involved math tutoring, designing living arrangements,
- conflict resolution, and activity planning
- Collaborated with staff and administration for planning and event execution

VOLUNTEER EXPERIENCE
Reading Kids Connect, *Student Mentor*, Hybrid Position   **Sept. 2020 - May 2021**
- Assisted younger students with online learning
- and adjustments to COVID-related challenges
- Conceived and implemented hybrid activities
- Monitored students' well-being and academic progress

Temple Emmanuel, *Technology Coordinator*, Wakefield, MA   **Part-Time Position**
- Involved with setup, training, and troubleshooting of all technology in the Temple
- Assisted clergy, teachers, and staff in various IT-related tasks
- Wrote a series of blog articles for the temple website

LEADERSHIP
Sargent at Arms, *Alpha Epsilon Pi*   **October 2023 - Present**
- One of 12 Founding Fathers who restarted the Phi Chapter at UMass Amherst
- Assembled and led the Judicial Board to determine and enforce Health and Safety Standards
- Serving as Health and Safety Officer to monitor risk management and report violations
- Assigning tasks to minor board members alongside providing resources to help with said tasks
- Managing IT tools and social media for the organization

INTERESTS, CLUBS, AND ACTIVITIES
Jewish Leaders in Business Club, UMass Ski & Board Club, Russian-speaking Organization, Cars/Motorsport, Guitar, The Boston Celtics, Skateboarding/eSkate